8-2-'98

SHARP SERVICE MANUAL

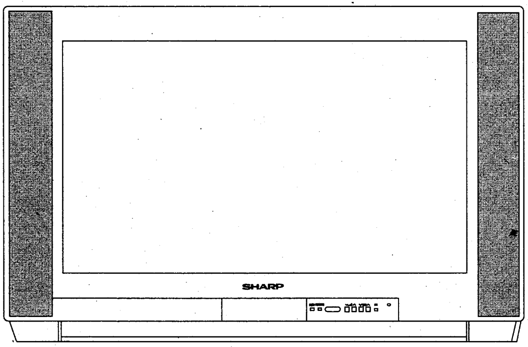
SEMZ81EF20E/2

DA-100W - CHASSIS

PAL /SECAM B/G SYSTEM COLOUR TELEVISION

DOLBY SURROUND

PRO • LOGIC
(ONLY FOR MODEL 81EF-20E)



MODELS 81EF-19E
81EF-20E

In the interests of user safety (required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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SHARP CORPORATION

ELECTRICAL SPECIFICATIONS

• Power Input	220-240 VAC 50Hz

• Power Consumption

Normal Operating	200W (81EF-19E) 235W (81EF-20E)
Stand-by Operating	3W max.

• Audio Power

Output Rating

Center	15W (MPO)
Front L	15W (MPO)
Front R	15W (MPO)
Rear	7,5+7,5W (MPO)
Subwoofer	30W (MPO)

Speakers

Center (in TV set)	15W 8 Ω
Front L (in TV set)	15 W 8 Ω
Front R (in TV set)	15W 8 Ω
Rear	7,5 W (External) 16 Ω
Rear	7,5 W (External) 16 Ω
Subwoofer	30W (External) 4 Ω

• Convergence	Self Converging System
• Focus	Bi-Potencial Electrostatic
• Sweep	Magnetic

• Intermediate Frequencies

Picture IF Frequency	38.9 MHz
Sound Carrier Trap	33.4 MHz
Adjacent Sound Carrier Trap	40.4 MHz
Adjacent Picture Carrier Trap	31.9 MHz

• Aerial Input Impedance	75 Unbalanced
• Tuning Ranges	48.25 MHz to 855.25 MHz CATV Special Channels

• Convergence

Set brigthness control to get total picture tube cathode current of 600 microampere under no signal condition. Maximun necessary correction of each picture tube cathode current to get 8550 degrees K+1MPCD screen temperature should not exceded 15% of its original value.
X=0.290 Y=0.300

Specifications are subject to change without prior notice.

WARNING

The chassis in this receiver is partially hot. Use an isolation transformer between the line cord plug and power receptacle, when servicing this chassis.
To prevent electric shock, do not remove cover. No user-serviceable parts inside. Refer servicing to qualified service personnel.

Special note

81EF-20E contains a DOLBY PRO LOGIC SURROUND DECODER.
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IMPORTANT SERVICE NOTES

Maintenance and repair of this receiver should be carried out by qualified service personnel only.

SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

When servicing the high voltage system, remove static charge from it by connecting a 10 k ohm resistor in series with an insulated wire (such as test probe) between picture tube ground tag and high voltage lead. (AC line cord should be disconnected from AC outlet).

1. Picture tube in this receiver employs integral implosion protection.
2. Replace with tube of the same type number for continued safety.
3. Do not lift picture tube by the neck.
4. Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage completely.

X-RAY

This receiver is designed so that any X-Ray radiation is kept to an absolute minimun. Since certain malfunctions ar servicing may produce potentially hazardous radiation with prolonged exposure at close range, the following precautions should be observed.

1. When repairing the circuit, be sure not to increase the high voltage to more than 33.0 kV (at beam 1800 μA) for the set.
2. To keep the set in a normal operation, be sure to make it function on 30.0kV ± 1.5kV (at beam 1800 μA) in the case of the set. The set has been factory adjusted to the above mentioned high voltage.
   If there is a possibility that high voltage fluctuates as result of the repairs, never forget to check for such high voltage after the work.
3. Do not substitute a picture tube with unauthorized types or brands which may cause excess X-Ray radiation.

BEFORE RETURNING THE RECEIVER

Before returning the receiver to the user, perform the following safety checks.

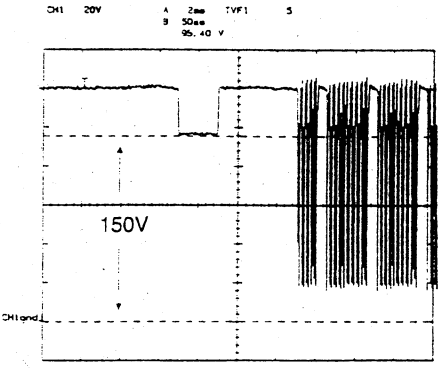
1. Inspect all lead insulation to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulating fishpapers, cabinet backs, adjustament and compartament covers or shields, insolation resistor-capacity networks, mechanical insulators, etc.

SERVICE ADJUSTMENTS

All the adjustments required for this chasis will be done in Service Mode, except G2, IF PLL (AFT) and RF AGC.

• G2 ADJUSTMENT

1. Receive cross hatch pattern signal.
2. Set contrast to 80/100 and brightness to 40/100.
3. Connect the oscilloscope to the red cathode and adjust G2 to read 150V on the sensor pulse as in below drawing:



NOTE:
Osciloscope should be adjustated for vertical TV field trigger and synchronized with video signal.

• IF PLL ADJUSTMENT (AFT)

1. Disconnect antenna signal
2. Connect the output of SSG (Standard Signal Generator) to the tuner If output terminal
   - SSG output: 38.9 MHz (CW) ± 5 kHz
   - SSG output level: approx. 90 dBμV
   - Probe: Direct
3. Connect the digital voltmeter to pin 11 of IC 201.
4. Adjust the AFT coil (L 205) to obtain 4.5VDC on voltmeter.

• RF AGC ADJUSTMENT

1. Receive "COLOUR BAR" signal (UHF)
   - signal strength: 57 dBμV
2. Connect DC Voltmeter to Test Point J91 (RF AGC).
3. Set AGC control (R224) to maximum position (memory).
4. Adjust R224 to obtain voltage of 0.1V below maximum voltage (step 3).

• SERVICE MODE FUNCTION

This mode function is provided to assist with the settings of those adjustment that may vary from one Picture Tube to another, or between models.

In order to use the Service Mode

1. Connect Test Pattern signal to antenna terminal.
   Set to full mode screen by wide button
2. Press main switch to "OFF".
3. Press volume-down and channel-up buttons and main switch to "ON" simultaneously.
4. Service mode is now entered.

The required adjustments can then be made from the Remote Control Unit.
The only buttons required are the following:
Up/Down-channel for movement in adjustment options menu; Up/Down-volume are used to carry out an adjustment in said menu; ON/OFF is used to memorize a new adjustment.

Adjustment menu is as follows:

- SERVICE SOFTWARE
- HORIZONTAL SHIFT
- EAST-WEST WIDTH
- PIN PHASE
- PIN AMP
- UPPER CORNER CORRECTION
- LOWER CORNER CORRECTION
- VERTICAL LINEARITY
- VERTICAL ANGLE
- VERTICAL BOW
- VERTICAL AMPLITUDE
- S CORRECTION
- VERTICAL SHIFT
- RED GAIN
- GREEN GAIN
- BLUE GAIN
- RED CUT OFF
- GREEN CUT OFF
- BLUE CUT OFF
- ALTER NVM PAG
- ALTER NVM POS
- ALTER NVM VAL
- TELETEXT MID MODE CONTRAST
- TELETEXT CONTRAST
- OSD CONTRAST
- DVCO ADJUSTMENT (ONLY PAL)
- DVCO ADJUSTMENT (ONLY NTSC)
- LUMA CHROMA DELAY
- OPC VALUE
- PICTURE ROTATION OFFSET
- AUTOINSTALLATION ON/OFF

To exit service mode, press main switch to off.

Adjustment Note:

The procedure for making adjustments to horizontal corrections is as follows:

- Adjust HORIZONTAL SHIFT
- Adjust E-W WIDTH
- Adjust PIN PHASE
- Adjust PIN AMPLITUDE
- Adjust UPPER CORNER CORRECTION
- Adjust LOWER CORNER CORRECTION

The procedure for making adjustments to vertical corrections is as follows:

- Adjust VERTICAL AMPLITUDE
- Adjust S-CORRECTION
- Adjust VERTICAL SHIFT
- Adjust VERTICAL LINEARITY
- Adjust VERTICAL ANGLE
- Adjust VERTICAL BOW

1 - HORIZONTAL SHIFT

a) Receive Philips pattern signal.
b) When volume-up button is pressed, picture moves to the left.
c) When volume-down button in pressed, picture moves to the right.
d) Adjust the horizotal location to obtain picture centering (fig. 1).

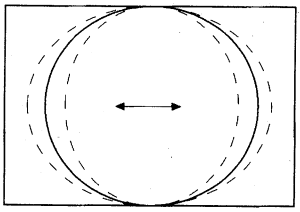


Fig. 1

2 - E-W WIDTH

a) Receive Philips pattern signal.
b) When volume-up button is pressed, horizontal scanning increases.
c) When volume-Down button is pressed, horizontal scanning decreases.
d) Adjust the horizontal amplitude to obtain 9% overscan (fig. 2).

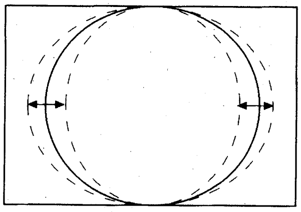


Fig. 2

3 - PIN PHASE

a) Receive Philips pattern signal.
b) When volume-up button is pressed, slide pincushion changes.
c) When volume-down button is pressed, slide pincushion changes.
d) Adjust the PIN PHASE to obtain condition as in (fig. 3).

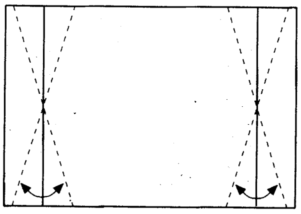


Fig. 3

4 - PIN AMPLITUDE

a) Receive Philips pattern signal.
b) When volume-up button is pressed, slide pincushion changes from pincushion to barrel shape.
c) When volume-down button is pressed, slide incushion changes from barrel to pincushion shape.
d) Adjust the PINT AMPLITUDE to obtain condition as in (fig. 4).

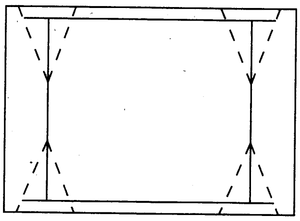


Fig. 4

5 - UPPER CORNER CORRECTION

a) Receive Philips pattern signal.
b) When volume-up button is pressed, slide pincushion changes from pincushion to barrel shape.
c) When volume-down is pressed, slide pincushion changes from barrel to pincushion shape.
d) Adjust the UPPER CORNER CORRECTION to obtain condition as in (fig. 5).

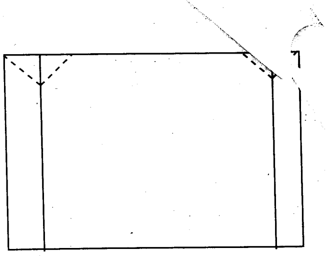


Fig. 5

6 - LOWER CORNER CORRECTION

a) Receive Philips pattern signal.
b) When volume-up button is pressed, slide incushion changes from pincushion to barrel shape.
c) When volume-down button is pressed, slide pincushion changes from barrel to pincushion shape.
d) Adjust the LOWER CORNER CORRECTION to obtain condition as in (fig. 6).

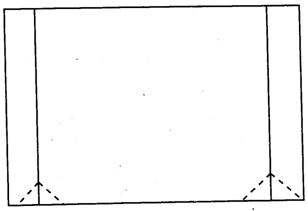


Fig. 6

7 - VERTICAL LINEARITY

a) Receive Philips pattern signal.
b) When volume-up button is pressed, upper picture scanning decreases and lower picture scanning increase.
c) When volume-down button is pressed, upper picture scanning increases and lower picture scanning decreases.
d) Adjust the vertical symmetry to obtain symmetrical scanning between upper and lower picture (fig. 7).

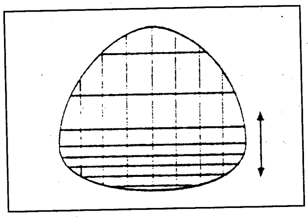


Fig. 7

8 - VERTICAL ANGLE

a) Receive Philips pattern signal.
b) When volume-up button is presed, vertical angle changes to the right.
c) When volume-down button is pressed, vertical angle changes to the left.
d) Adjust the VERTICAL ANGLE to obtain condition as in (fig. 8).

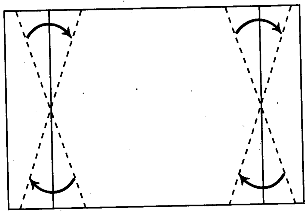


Fig. 8

9 - VERTICAL BOW

a) Receive Philips pattern signal.
b) When volume-up button is pressed, vertical bow changes to the right.
c) When volume-down button is pressed, vertical bow changes to the left.
d) Adjust the VERTICAL BOW to obtain condition as in (fig. 9).

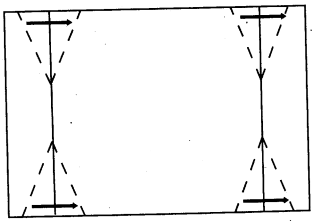


Fig. 9

10 - VERTICAL AMPLITUDE

a) Receive Philips pattern signal.
b) When volume-up button is pressed, vertical size of picture increases.
c) When volume-down button is pressed, vertical size of picture decreases.
d) Adjust the vertical size to obtain overscan (fig. 10).

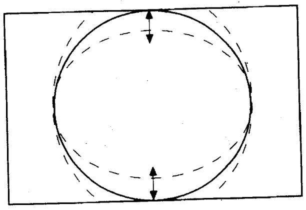


Fig. 10

11 - S-CORRECTION

a) Receive Philips pattern signal.
b) When volume-up button is pressed, upper and lower scanning decreases, and center scanning increases.
c) When volume-down button is pressed, upper and lover scanning increases, and center scanning decreases.
d) Adjust the S-correction to obtain a balance between upper, lower and center (fig. 11).

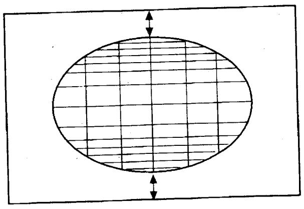


Fig. 11

12 - VERTICAL SHIFT

a) Receive Philips pattern signal.
b) When volume-up button is pressed, picture moves up.
c) When volume-down button is pressed, picture moves down.
d) Adjust the horizontal location to obtain picture centering (fig. 12).

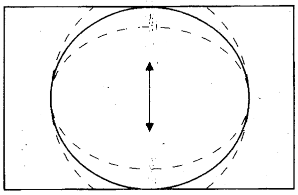


Fig. 12

1. RED CUT OFF / GREEN CUT OFF / BLUE CUT OFF

1.1 Adjust G2.
1.2 Tune a white card.
1.3 Adjust colour to minimum.
1.4 Position colourimeter in the center of screen.
1.5 Adjust brightness and contrast to obtain a luminance of ≈ 20 NITS.
1.6 Operate in Service Mode and select location RED CUT OFF / GREEN CUT OFF / BLUE CUT OFF, to botain coilour coordinates:

$$X = 0.290 \pm 0.015$$
$$Y = 0.300 \pm 0.015$$

To increase press volume-up button and to decrease press volume-down button

RED CUT OFF	alter “X” coordinate
GREEN CUT OFF	alter “Y” coordinate
BLUE CUT OFF	alter “X” and “Y” coordinate

1.7 The changes introduced can be memorized by pressing button ⏻ on TV set.

2. RED GAIN / GREEN GAIN / BLUE GAIN

2.1 Using brightness and contrast buttons, select a luminance of ≈ 110 NITS.
2.2 Operate again in Service Mode and select location RED GAIN / GREEN GAIN BLUE GAIN, to obtain colour coordinates:

$$X = 0.290 \pm 0.015$$
$$Y = 0.300 \pm 0.015$$

To increase press volume-up button and to decrease press volume-down button

RED GAIN	alter “X” coordinate
GREEN GAIN	alter “Y” coordinate
BLUE GAIN	alter “X” and “Y” coordinate

2.3 The changes introduced can be memorized by pressing button ⏻ on TV set.

2.4 Exit Service Mode and check colour coordinates “X” and “Y” at 20 and 110 NITS. It may be necessary to repeat procedure 1 and 2 of COLOUR ADJUSTMENT.

ACCESS TO NVM

Press CH∧ to move in the following secuence:
ALTER NVM PAG → ALTER NVM POS → ALTER NVM VAL
⚠ CAUTION: Do not change NVM VALUE to avoid risk of serious damages to TV set.

CONTRAST ADJUSTMENT

Up/Down-volume buttons are used to adjust the contrast of the following items:

- TELETEXT MIX MODE CONTRAST
- TELETEXT CONTRAST
- OSD CONTRAST

DVCO ADJUSTMENT

DVCO ADJUSTMENT (ONLY PAL)
a) Receive Philips pattern signal.
b) When Stand-by button is pressed (Remote Contrl Unit), start automatically the adjustment.

DVCO ADJUSTMENT (ONLY NTSC)
a) Receive Philips pattern signal.
b) When Stand-by button is pressed (Remote Control Unit), start automatically the adjustment.

LUMA CHROMA DELAY

a) Receive Philips pattern signal.
b) When volume-up button is pressed, luma phase delays.
c) When volume-down button is pressed, chroma phase delays.
d) Adjust the Chroma-Luma delay.

OPC VALUE

Shows reading of detected illuminated value by O.P.C. (Optical Picture Control) to check function.

PICTURE ROTATION OFFSET

a) Receive Philips pattern signal.
b) When volume-up button is pressed, picture turn to the left (fig. 13).
c) When volume-down button in presed, picture turn to the right (fig. 14).
d) Adjust the horizontal location to obtain picture levelling.

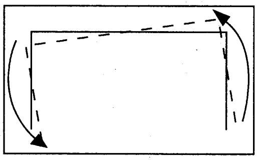


Fig. 13

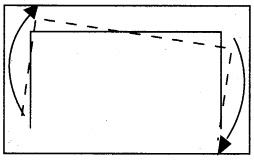


Fig. 14

AUTO INSTALLATION OFF/ON

When ON is selected, the TV will perform the autoinstallation secuence as soon as service mode is removed.

PROTECTIONS CANCEL

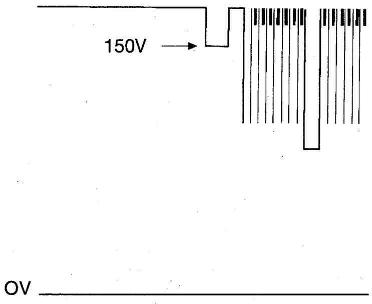
a) Connect Test Pattern signal to antenna terminal.
b) Press main switch to OFF.
c) Press volume-down and channel-up buttons and main switch to ON simultaneously.
d) “Service software Vxx.xx” appears on screen.
c) Press main switch to OFF.

SERVICE-EINSTELLUNGEN

Alle Einstellungen an diesem Chassis erfolgen im Service-Modus, abgesehen von G2, ZF, PLL (AFT) und HF AGC.

G2 EINSTELLUNG

1. Stellen Sie das Gittertestbild ein.
2. Stellen Sie den Kontrast auf 80/100 und die Helligkeit auf 40/100.
3. Schlißen Sie das Oszilloskop an der roten Kathode an. Stellen Sie G2 so ein, daß Sie einen Meßwert von 150 V am Sensorimplus erhalten, wie in der folgenden Zeichnung dargestellt:



HINWEIS:
Das Oszilloskop ist auf vertikale Halbbildtriggerung eingestellt und mit dem Videosignal synchronisiert.

ZF PLL-EINSTELLUNG (AFT)

1. Unterbrechen Sie das Antennensignal.
2. Schließen Sie den Ausgang des SSG (Standardsignalgenerator) am ZF-Ausgang des Tuners an.
   - SSG-Ausgang: 38.9 MHz (CW) ± 5 kHz
   - SSG-Ausgangspegel: ca. 90 dBµV
   - Tastkopf: direkt
3. Schließen Sie das Digitalvoltmeter an Pin 11 des IC201 an.
4. Stellen Sie die AFT-Spule (L205) so ein, daß das Voltmeter einen Wert von 4,5 V Glleichstrom anzeigt.

HF AGC-EINSTELLUNG

1. Stellen Sie das Farbbalkentestbild (UHF) ein.
   - Signalstärke: 57 dBµV
2. Schielißen Sie ein Gleichstromvoltmeter an Meßpunkt J91 (HF/AGC) an.
3. Stellen Sie die AGC-Steuerung (R224) auf die maximale Position ein (Speicher).
4. Stellen Sie R224 so ein, daß Sie eine Spannung von 0,1 V unter der maximalen Spannung (Schritt 3) erhalten.

SERVICE-MODUS

Diese Funktion vereinfacht die folgenden Einstellungen, die von Bildröhre zu Bildröhre oder von Modell zu Modell variieren könen.

Aktivierung des Service-Modus

1. Legen Sie das Testbildsignal an den Antenneneingang.
2. Schalten Sie das Gerät über den Netzschalter aus.
3. Drücken Sie die Lautstärketaste (-) und die Programmtaste (+) am Gerät zur gleichen Zeit und schalten dabei das Gerät über den Netzschalter ein.
4. Sie befinden sich jetzt im Service-Modus.

Um den Service-Modus zu verlassen, das Gerät über den Netzschalter ausschalten.
Alle Einstellungen lassen sich über die Fernbedienung vornehmen.
Sie benötigen lediglich die folgenden Tasten:
Die Tasten Programmtaste (+ / -) werden verwendet, um durch das Menü mit den Einstellungsoptionen zu blättern.
Die Tasten Lautstärketaste (+ / -) werden verwendet, um eine Einstellung in diesem Menü vorzunehmen.
Die taste EIN/AUS wird verwendet, um die neue Einstellung zu speichern.

Das Einstellungsmenü enthält folgende Optionen:

- SERVICE SOFTWARE
- HORIZONTAL SHIFT
- EAST-WEST WIDTH
- PIN PHASE
- PIN AMP
- UPPER CORNER CORRECTION
- LOWER CORNER CORRECTION
- VERTICAL LINEARITY
- VERTICAL ANGLE
- VERTICAL BOW
- VERTICAL AMPLITUDE
- S CORRECTION
- VERTICAL SHIFT
- RED GAIN
- GREEN GAIN
- BLUE GAIN
- RED CUT OFF
- GREEN CUT OFF
- BLUE CUT OFF
- ALTER NVM PAG
- ALTER NVM POS
- ALTER NVM VAL
- TELETEXT MID MODE CONTRAST
- TELETEXT CONTRAST
- OSD CONTRAST
- DVCO ADJUSTMENT (ONLY PAL)
- DVCO ADJUSTMENT (ONLY NTSC)
- LUMA CHROMA DELAY
- OPC VALUE
- PICTURE ROTATION OFFSET
- AUTOINSTALLATION ON/OFF

Um den Service-Modus zu verlassen, stellen Sie den Netzschalter auf AUS.

Hinweis zu den Eisntellungen:

Beachten Sie folgende Sequenz bei der Einstellung der horizontalen Korrekturen:
- Einstellung HORIZONTALE POSITION
- Einstellung OST/WEST-BREITE
- Einstellung PIN PHASE
- Einstellung PIN AMPLITUDE
- Einstellung KORREKTUR OBERE ECKE
- Einstellung KORREKTUR UNTERE ECKE

Beachten Sie folgende Sequenz bei der Einstellung der vertikalen Korrekturen:
- Einstellung VERTICALE AMPLITUDE
- Einstellung S-KORREKTUR
- Einstellung VERTIKALE POSITION
- Einstellung VERTIKALE LINEARITÄT
- Einstellung VERTIKALER WINKEL
- Einstellung VERTIKALER BOGEN

1 - HORIZONTALE POSITION

a) Tellen Sie das Phillips-Testbild ein.
b) Wenn die Lautstärketaste (+) gedrückt wird, verschiebt sich das Bild nach links.
c) Wenn die Lautstärketaste (-) gedrückt wird, verschiebt sich das Bild nach rechts.
d) Stellen Sie die horizontale Position so ein, daß das Bild zentriert ist (Abb. 1).

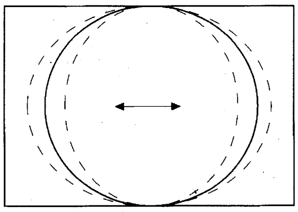


Abb 1

2 - OST/WEST-BREITE

a) Stellen Sie das Philips-Testbild ein.
b) Wenn die Lautstärketaste (+) gedrückt wird, vergrößert sich der horizontale Abtastbereich.
c) Wenn die Lautstärketaste (-) gedrückt wird, verkleinert sich der horizontale Abtastbereich.
d) Stellen Sie die horizontale Amplitude so ein, daß Sie eine Nutzflächenüberschreitung von 9% erhalten (Abb. 2).

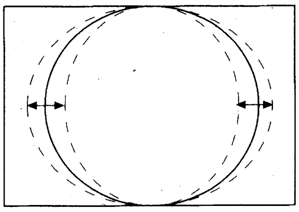


Abb. 2

3 - PIN PHASE

a) Stellen Sie das Philips-Testbild ein.
b) Wenn die Lautstärketaste (+) gedrückt wird, verschiebt sich die Kissenform.
c) Wenn die Lautstärketaste (-) gedrückt wird, verschiebt sich die Kissenform.
d) Stellen Sie die PIN-PHASE so ein, Daß Sie eine Bedingung wie in Abb. 3 erhalten.

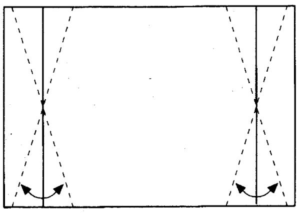


Abb. 3

4 - PIN AMPLITUDE

a) Stellen Sie das Philips-Testbild ein.
b) Wenn die Lautstärketaste (+) gedrückt wird, verändert sich die Kissenform zu einer Tonnenform.
c) Wenn die Lautstärketaste (-) gedrückt wird, verändert sich die Tonnenform zu einer Kissenform.
d) Stellen Sie die PIN-AMPLITUDE so ein, daß Sie eine Bedingung wie in Abb. 4 erhalten.

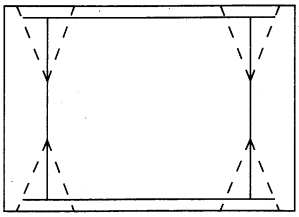


Abb. 4

5 - KORREKTUR OBERE ECKE

a) Stellen Sie das Philips-Testbild ein.
b) Wenn die Lautstärketaste (+) gedrückt wird, verändert sich die Kissenform zu einer Tonnenform.
c) Wenn die Lautstärketaste (-) gedrückt wird, verändert sich die Tonnenform zu einer Kissenform.
d) Stellen Sie KORREKTUR OBERE ECKE so ein, daß Sie eine Bedingung wie in Abb. 5 erhalten.

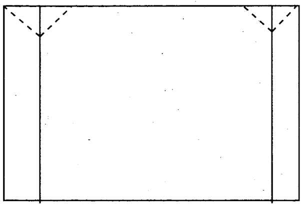


Abb. 5

6 - KORREKTUR UNTERE ECKE

a) Stellen Sie das Philips-Testbild ein.
b) Wenn die Lautstärketaste (+) gedrückt wird, verändert sich die Kissenform zu einer Tonnenform.
c) Wenn die Lautstärketaste (-) gedrückt wird, verändert sich die Tonnenform zu einer Kissenform.
d) Stellen sie KORREKTUR UNTERE ECKE so ein, daß Sie eine Bedingung wie in Abb. 6 erhalten.

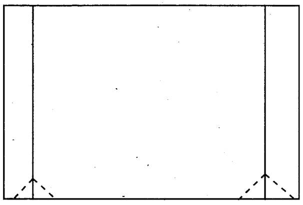


Abb. 6

7 - VERTIKALE LINEARITÄT

a) Stellen Sie das Philips-Testbild ein.
b) Wenn die Lautstärketaste (+) gedrückt wird, verkleinert sich der Abtasbereich im oberen Bild und vergrößert sich im unteren Bild.
c) Wenn die Lautstarkestaste (-) gedrückt wird, vergrößert sich der Abtastbereich im oberen Bild und verkleinert sich im unteren Bild.
d) Stellen Sie die vertikale Symmetrie so ein, daß Sie eine symmetrische Abtastung im oberen und unteren Bildbereich erhalten (Abb. 7).

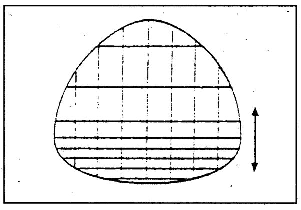


Abb. 7

8 - VERTIKALER WINKEL

a) Stellen Sie das Philips-Testbild ein.
b) Wenn die Lautstärketaste (+) gedrückt wird, verschiebt sich der vertikale Winkel nach rechts.
c) Wenn die Lautstärketaste (-) gedrückt wird, verschiebt sich der vertikale Winkel nach links.
d) Stellen Sie den VERTIKALEN WINKEL so ein, daß Sie eine Bedingung wie in Abbildung 8 erhalten.

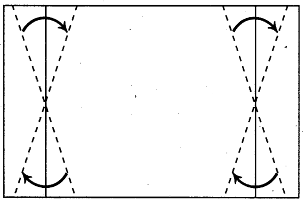


Abb. 8

9 - VERTIKALER BOGEN

a) Stellen Sie das Philips-Testbild ein.
b) Wenn die Lautstärketaste (+) gedrückt wird, verschiebt sich der vertikale Bogen nach rechts.
c) Wenn die Lautstärketaste (-) gedrückt wird, verschiebt sich der vertikale Bogen nach links.
d) Stellen Sie den VERTIKALEN BOGEN so ein, daß Sie eine Bedingung wie in Abbildung 9 erhalten.

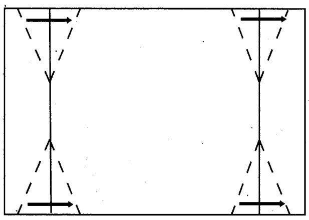


Abb. 9

10 - VERTIKALE AMPLITUDE

a) Stellen Sie das Philips-Testbild ein.
b) Wenn die Lautstärketaste (+) gedrückt wird, vergrößert sich das vertikale Bildformat.
c) Wenn die Lautstärketaste (-) gedrückt wird, verschiebt sich der vertikale Bogen nach links.
d) Stellen Sie das vertikale Bildformat so ein, daß Sie eine Bedingung wie in Abbildung 10 erhalten.

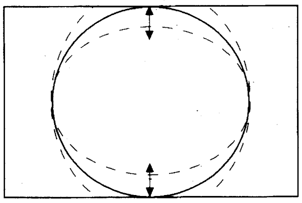


Abb. 10

11 - S-KORREKTUR

a) Stellen Sie das Philips-Testbild ein.
b) Wenn die Lautstärketaste (+) gedrückt wird, verkleinert sich der Abtastbereich oben und unten und vergrößert sich in der Mitte.
c) Wenn die Lautstärketaste (-) gfedrückt wird, vergrößert sich der Abtastbereich oben und unten und verkleinert sich in der Mitte.
d) Stellen Sie die S-KORREKTUR so ein, daß Sie ein Gleichgewicht zwischen oberen, unterem und mittlerem Bildbereich erhalten (Abb. 11).

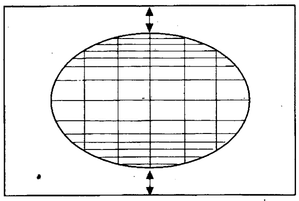


Abb. 11

12 - VERTIKALE POSITION

a) Stellen Sie das Philips-Testbild ein.
b) Wenn sie Lautstärketaste (+) gedrückt wird, bewegt sich das Bild nach oben.
c) Wenn die Lautstärketaste (-) gedrückt wird, bewegt sich das Bild nach unten.
d) Stellen Sie die VERIKALE POSITION so ein, daß das Bild zentriert ist (Abb. 12).

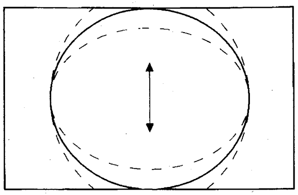


Abb. 12

FARBEINSTELLUNG

Die Folgenden Einstellungen sind nur erforderlich, wenn die Bildröhre ausgewechselt wurde.

1. ROT-REFERENZ / GRÜN-REFERENZ / BLAU-REFERENZ

1.1) Stellen Sie G2 ein.
1.2) Stellen Sie ein weißes Bild ein.
1.3) Stellen Sie die Farbe auf den Minimalwert ein.
1.4) Stellen Sie den Farbmesser in die Mitte des Bildschirms.
1.5) Stellen Sie Helligkeit und Kontrast so ein, daß Sie eine Luminanz von ≈ 20 NITS erhalten.
1.6) Rufen Sie den Service-Modus auf, und wählen Sie die Position für ROT-REFERENZ / GRÜN-REFERENZ / BLAU-REFERENZ jeweils so, daß Sie die folgenden Farbkoordinaten erhalten:

$$X = 0.290 \pm 0.015$$
$$Y = 0.300 \pm 0.015$$

Mit der Lautstärketaste (+) wird der Wert erhöht, mit der Lautstärketaste (-) verringert.

ROT-REFERENZ	"X"-Koordinate ändern
GRÜN-REFERENZ	"Y"-Koordinate ändern
BLAU-REFERENZ	"X"-und "Y"-Koordinate ändern.

1.7) Die Änderungen können über die Netzchalter AUS/EIN am Fernsehgerät gespeichert werden.

2. ROT-VERSTÄRKUNG / GRÜN-VERSTÄRKUNG / BLAU-VERSTÄRKUNG

2.1) Stellen Sie Helligkeit und Kontrast so ein, daß Sie eine Luminanz von ≈ 110 NITS erhalten.
2.2) Rufen Sie den Service-Modus auf, und wählen Sie die Position für ROT-VERSTÄRKUNG / GRÜN-VERSTÄRKUNG / BLAU-VERSTÄRKUNG jeweils so, daß Sie die folgenden Fabkoordinaten erhalten:

$$X = 0.290 \pm 0.015$$
$$Y = 0.300 \pm 0.015$$

Mit der Lautstärketaste (+) wird der Wert erhöht, mit der Lautstärketaste (-) verringert.

ROT-VERSTÄRKUNG	"X"-Koordinate ändern
GRÜN-VERSTÄRKUNG	"Y"-Koordinate ändern
BLAU-VERSTÄRKUNG	"X"-und "Y"-Koordinate ändern.

2.3 Die Änderungen können über die Ketzchalter AUS/EIN am Fernsehgerät gespeichert werden.
2.4 Verlassen Sie den Service-Modus, und Kontrollieren Sie die Farbkoordinaten "X" und "Y" bei 20 und 110 NITS. Eventuell müssen Sie das Verfahren unter FARBEINSTELLUNG, Punkt 1 und 2, wiederholen.

ZUGRIFF AUF NVM

Drücken Sie die taste Programmtaste (+) um die folgende Sequenz zu durchlaufen:
NVM-SEITE ÄNDERN → NVM-POSITION ÄNDERN → NVM-WER ÄNDERN.
Um die Einstellungen zu ändern, drücken Sie die Lautstärketaste (+ / -) unter NVM-WERT ÄNDERN.
⚠ AACHTUNG: Ändern Sie den NVM-Wert selbst nicht. Andernfalls kann das Fernsehgerät beschädigt werden.

KONTRASTEINSTELLUNG

Mit der Lautstärketaste (+) wird der Kontrast unter folgenden Optionen eingestellt:
- TELETEXT-KONTRAST IM MIX-MODUS
- TELETEXT-KONTRAST
- OSD KONTRAST

DVCO-EINSTELLUNG

DVCO ADJUSTMENT (ONLY PAL)
a) Stellen Sie das Philips-Testbild ein.
b) Wenn die Stanby-Taste (Fernbedienung) gedrückt wird, erfolgt die Einstellung automatisch.

DVCO ADJUSTMENT (ONLY NTSC)
a) Stellen Sie das Philips-Testbild ein.
b) Wenn die Stanby-Taste (Fernbedienung) gedrückt wird, erfolgt die Einstellung automatisch.

LUMA / CHROMA-VERZÖGERUNG

a) Stellen Sie das Philips-Testbild ein.
b) Wenn die Lautstärketaste (+) gedrückt wird, wird die Luma-Phase verzögert.
c) Wenn die Lautstärketaste (-) gedrückt wird, wird die Chroma-Phase verzögert.
d) Stellen Sie die Luma/Chroma-Verzögerung ein.

OPC-WERT

Zeigt den Meßwert für die Beleuchtung an, der von der OPC (Optische Bildkontrolle) erkannt wird. Die Option dient der Überprüfung dieser Funktion.

PICTURE ROTATION OFFSET

a) Stellen Sie das Philips-Testbild ein.
b) Wenn die Lautstärketaste (+) gedrückt wird, drehen sich das Bild nach links (Abb. 13).
c) Wenn die Lautstärketaste (-) gedrückt wird, drehen sich das Bild nach rechts (Abb. 14).
d) Stellen Sie die horizontale Position so ein, daß das Bild Ausgleichung ist.

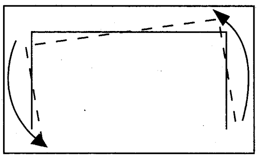


Abb. 13

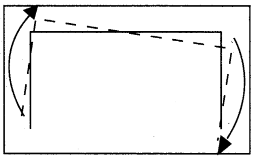


Abb. 14

AUTOMATISCHE INSTALLATION EIN / AUS

Wenn EIN gewählt wird, führt das Fernsehgerät die automatische Installation durch, sobald der Service-Modus verlassen wird.

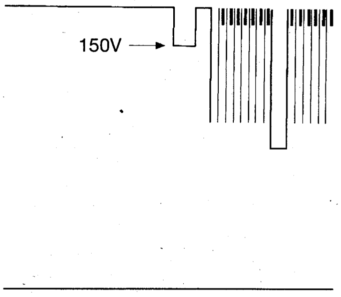
KINDERSICHERUNG LÖSCHEN

a) Legen Sie das Testbildsignal an den Antenneneingang.
b) Schalten Sie das Gerät über den Netzschalter aus.
c) Drücken Sie die Lautstärketaste (-) und die Programmtaste (+) am Gerät zur gleichen Zeit und schalten dabei das Gerät über den Netzschalter ein.
d) “Service Software Vxx.xx” erscheint auf dem Bildschirm.
e) Schalten Sie das Gerät über den Netzschalter aus.

REGLAGES DANS MODE DE SERVICE

Tous les reglages nécessaires dans ce châssis sont réalisés dans le “Service Mode” à l’exception du reglage des G2.

REGLAGE G2



1. Syntoniser une mire “cross hatch”.
2. Sélectionner un niveau de contraste 80 % de lumière de 40 %.
3. Connecter l’osciloscope au cathode rouge et aprés régler les G2 pour lire 150V entre les deux niveaux A et B representés au dessin.

NOTE:
L’osciloscope doit être réglé pour le trigger “vertical TV field” et sinchronisé avec la signal de video.

IF PLL ADJUSTMENT

1. Déconnecter le signal d’antenne.
2. Connecter la sortie d’un générateur de fréquence à la sortie F.I. du tuner

Fréquence du générateur	38.9 MHz (CW) ± 5 kHz
Amplitude du signal	approx. 90 dBµV
Sonde	Direct

3. Connecter un voltmètre digital à la patte 11 de 1C 201.
4. Régler la bobine AFT (L 205) pour obtenir 4,5 Vdc sur le voltmètre.

AGC TAKE OVERT POINT

1. Recevoir un de mire de barre couleur avec un niveau de 57 dbµ V.
2. Brancher un voltmètre digital à la broche J91 (RF-AGC).
3. Régler R224 jusqu’à obtenir le niveau maximum.
4. Régler R224 à 0,1 V en-dessous du niveau maximum.

FONCTIONS DE “SERVICE MODE”

Comment rentrer dans le mode service

1. Connecter le générateur de mire à la prise d’antenne du téléviseur
   Mettre le téléviseur en mode plein écran par le bouton zoom de la télécommande.
2. Mettre l’intérrupteur général sur arrèt.
3. Appuyer simullltanément sur volume moins et chaine plus puis mettre l’intérrupteur général sur marche.
4. Vous ètes maintenant dans le mode service.

VCHΛ Pour vous sélectionner le réglage voula
V◿Λ Sont utilisés pour modifier les valeurs du réglage, et la touche de mise en marche “POWER” pour memoriser chaque réglage.

Les options de réglage sont les suivantes:

- SERVICE SOFTWARE
- HORIZONTAL SHIFT
- EAST-WEST WIDTH
- PIN PHASE
- PIN AMP
- UPPER CORNER CORRECTION
- LOWER CORNER CORRECTION
- VERTICAL LINEARITY
- VERTICAL ANGLE
- VERTICAL BOW
- VERTICAL AMPLITUDE
- S CORRECTION
- VERTICAL SHIFT
- RED GAIN
- GREEN GAIN
- BLUE GAIN
- RED CUT OFF
- GREEN CUT OFF
- BLUE CUT OFF
- ALTER NVM PAG
- ALTER NVM POS
- ALTER NVM VAL
- TELETEXT MID MODE CONTRAST
- TELETEXT CONTRAST
- OSD CONTRAST
- DVCO ADJUSTMENT (ONLY PAL)
- DVCO ADJUSTMENT (ONLY NTSC)
- LUMA CHROMA DELAY
- OPC VALUE
- PICTURE ROTATION OFFSET
- AUTOINSTALLATION ON/OFF

Pour sortir du Mode Service, appuyer sur l'interrupteur ON/OFF du TV.

REGLAGES AVEC LE "MODE SERVICE"

MANIÈRE DE FAIRE LES CORRECTIONS DE GÉOMÉTRIES:

Procedure pour réglage des corrections d'Horizontal:
- Régler HORIZONTAL SHIFT
- Régler E-W WIDTH
- Régler PIN PHASE
- Régler PIN AMPLITUDE
- Régler UPPER CORNER CORRECTION
- Régler LOWER CORNER CORRECTION

Procedure pour réglage des corrections de Vertical:
- Régler VERTICAL AMPLITUDE
- Régler S-CORRECTION
- Régler VERTICAL SHIFT
- Régler VERTICAL LINEARITY
- Régler VERTICAL ANGLE
- Régler VERTICAL BOW

1 - HORIZONTAL SHIFT

a) Syntoniser une mire signal géometric (cercle).
b) Appuyer sur ⊿Λ l'image se déplacera á gauche.
c) Appuyer sur V⊿ l'image se déplacera á droite.
d) Régler la position horizontal pour une image située dans le centre (Fig. 1).

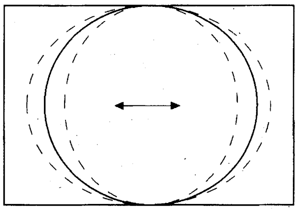


Fig. 1

2 - E-W WIDTH

a) Syntoniser une mire signal géometric.
b) Appuyer sur ⊿Λ le balayage horizontal augmentera.
c) Appuyer sur V⊿ le balayage horizontal diminura
d) Régler l'amplitude horizontal pour obtenir un 9% de balayage (fig. 2).

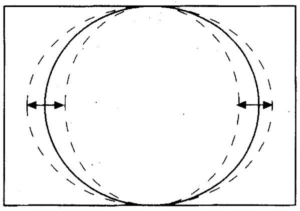


Fig. 2

3 - PIN PHASE

a) Syntoniser une mire signal convergence.
b) Appuyer sur ⊿Λ , les côtes de l'ecran changeront d'effet de coussin à effet de tonneau.
c) Appuyer sur V⊿ , les côtes de l'ecran changeront d'effet de tonneau à effet de coussin.
d) Régler PIN PHASE pour obtenir le même résultat que la fig. 3.

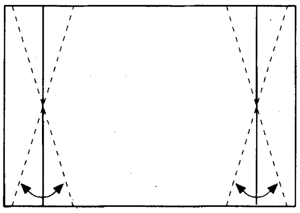


Fig. 3

4 - PIN AMPLITUDE

a) Connecter une mire à l'entrée antenne.
b) L'action sur le bouton volume + entraînera le changement (slide pincushion)
c) L'action sur le bouton volume - entraînera le changement inverse.
d) Régler PIN AMPLITUDE pour obtenir le même resultat que la (fig. 4).

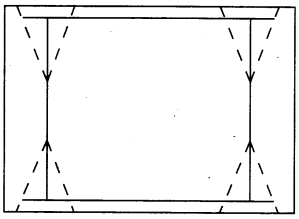


Fig. 4

5 - UPPER CORNER CORRECTION

a) Syntoniser une mire.
b) Appuyer sur ◿Λ, les côtes de l'écran changeront d'effet de coussin à effet de tonneau.
c) Appuyer sur V◿ , les côtes de l'écran changeront d'effet de tonneau à effet de coussin
d) Régler UPPER CORNER CORRECTION pour obtenir le même resultat que la (fig. 5).

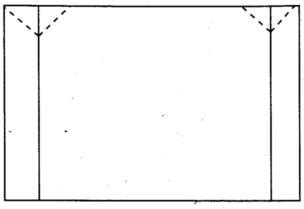


Fig. 5

6 - LOWER CORNER CORRECTION

a) Syntoniser une mire.
b) Appuyer sur ◿Λ, les côtes de l'écran changeront d'effet de coussin à effet de tonneau.
c) Appuyer sur V◿ , les côtes de l'écran changeront d'effet de tonneau à effet de coussin
d) Régler LOWER CORNER CORRECTION pour obtenir le même resultat que la (fig. 6).

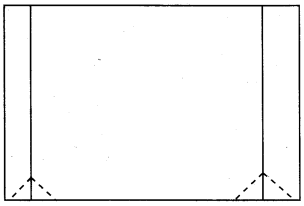


Fig. 6

7 - VERTICAL LINEARITY

a) Recevoir un signai de mire (convergence + cercle)
b) Quand le bouton est pressé, la partie haute de l'image diminue et la partie basse augmente.
c) Quand le bouton est pressé, la partie haute de l'image augmente et la partie basse diminue.
d) Ajuster la Symétrie Verticale pour obtenir una image symétrique entre le haut et le bas (fig. 7).

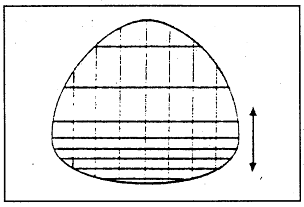


Fig. 7

8 - VERTICAL ANGLE

a) Connecter une mire à l'entrée antenne.
b) Appouyer sur la touche volume + et le réglage s'accentuera sur le coté droit.
c) Appouyer sur la touche volume - et le réglage s'accentuera sur le coté gauche.
d) Effectuer le réglage du VERTICAL ANGLE pour obtenir la même image que la figure 8.

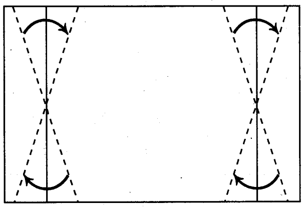


Fig. 8

9 - VERTICAL BOW

a) Connecter une mire à l'entrée antenne.
b) Appuyer sur la touche volume + et le réglage s'accentuera sur le coté droit.
c) Appuyer sur la touche volume - et le réglage s'accentuera sur le coté gauche.
d) Effectuer le réglage du VERTICAL BOW pour obtenir la même image que la figure 9.

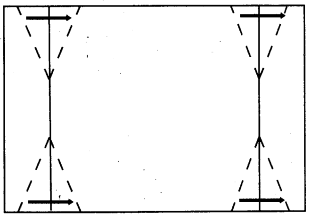


Fig. 9

10 - VERTICAL AMPLITUDE

a) Syntoniser une mire façon Philips.
b) Appuyer sur ◿Λ , la largeur vertical de l'écram augmentera.
c) Appuyer sur V◿ , la largeur vertical de l'écram diminura.
d) Regler la longeur vertical pour obtenir un balayage plus grand (fig. 10).

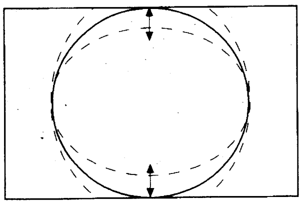


Fig. 10

11 - S-CORRECTION

a) Syntoniser une mire façon Philips.
b) Appuyer sur ◿Λ , le balayage superieur et inferieur diminura et le balayage central augmentera.
c) Appuyer sur V◿ , le balayage superieur et inferieur augmentera et le balayage central diminura.
d) Régler S CORRECTION pour obtenir une image symetrique réferencé au centre de l'écram (fig. 11).

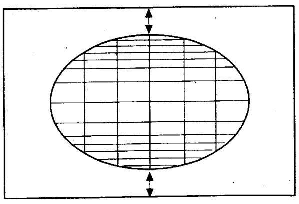


Fig. 11

12 - VERTICAL SHIFT

a) Syntoniser une mire façon Philips.
b) Appuyer sur ◢Λ , l'image descendra.
c) Appuyer sur V◢ , l'image montera.
d) Régler la position vertical pour une image située dans le centre (fig. 12).

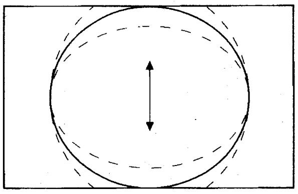


Fig. 12

1. RED CUT OFF / GREEN CUT OFF / BLUE CUT OFF

1.1 Régler les G2.
1.2 Recevoir une image blanche.
1.3 Régler la coleur au minimum.
1.4 Positioner un colorimètre au centre de l'image.
1.5 Utiliser les boutons de lumière et de contrast pour avoir une luminosité de 20 NITS.
1.6 Entrer en mode service et sélectionner RED CUT OFF / GREEN CUT OFF / BLUE CUT OFF. Ajuster de manière à obtenir les valeurs de la spécification de X et Y.

$$X = 0.290 \pm 0.015$$
$$Y = 0.300 \pm 0.015$$

1.7 Sortir du Mode service et contrôler les coordinnées de couleur X et Y de 20 et 110 NITS. Il sera peut être nécessaire de répéter cette procédure.

NOTE : Il ne faut pas de modifier le Rouge.
Les positions GREEN CUT OFF modifie la coordinnée Y
BLUE CUT OFF modifie les coordinnées X et Y.
RED CUT OFF modifie la coordinée X.

2. RED GAIN / GREEN GAIN / BLUE GAIN

2.1 Utiliser les boutons de lumière et de contrast pour avoir une luminosité de 110 NITS.
2.2 Entrer en mode service et sélectionner RED GAIN / GREEN GAIN / BLUE GAIN. Ajuster de manière à obtenir les coordinées de couleur.

$$X = 0.290 \pm 0.015 \qquad Y = 0.300 \pm 0.015$$

2.3 Sortir du Mode de Service et contrôler les coordinnées de couleur X et Y de 20 et 110 NITS. Il sera peu être nécessaire de répéter cette procédure.

NOTE : Il ne faut pas de modifier le Rouge.
Les positions RED GAIN modifie la coordinée X
GREEN GAIN modifie la coordinée Y.
BLUE GAIN modifié les coordinées X et Y.

2.4 Exit Service Mode and check colour coordinates "X" and "Y" at 20 and 110 NITS. It may be necessary to repeat procedure 1 and 2 of COLOUR ADJUSTMENT. **(ESTA EN INGLES?)**

ACCESS TO NVM

Appuyer sur CH Λpour faire apparâittre la suivante seqüence:

ALTER NVM PAG
CHΛ
↓
ALTER NVM POS
CHΛ
↓
ALTER NVM VAL

Pour changer le valeur appuyer V◢Λ

CONTRAST ADJUSTMENT

Vest utilisè pour régler le contrast du Teletexte et de l'OSD.

- TELETEXT MIX MODE CONTRAST
- TELETEXT CONTRAST
- OSD CONTRAST

DVCO ADJUSTMENT

DVCO ADJUSTMENT (ONLY PAL)

- a) Connecter une mire à l'entrée antenne.
- b) Ce réglage est automatique. Appouyer sur la touche de misse en marche de la telécommande l'appareil cherchera automatiquement son réglage.

DVCO ADJUSTMENT (ONLY NTSC)

- a) Connecter une mire à l'entrée antenne.
- b) Ce réglage est automatique. Appouyer sur la touche de misse en marche de la telécommande l'appareil cherchera automatiquement son réglage.

LUMA CHROMA DELAY

- a) Receivor le signai de couleur (PAL/SECAM) du modèle Philips.
- b) Quand on appuie sur le bouton de volume Λ, la phase luma se retarde
- c) Quand on appuie sur le bouton de volume V , la phase luma se retarde.
- d) Ajuster le retard de Croma-Luma.

OPC VALUE

Pour test er la fonction OPC regarder si lors d'un changtement d'éclairement si l'OPC agit.

PICTURE ROTATION OFFSET

- a) Syntoniser une mire façon Philips.
- b) Appuyer sur ◺Λ l'image tourne à gauche (fig. 13)
- c) Appuyer sur V◺ l'image tourne à droite (fig. 14).
- d) Régler la position horizontal pour une image nivelage.

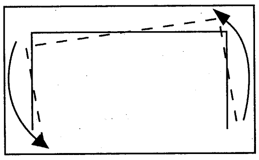


Fig. 13

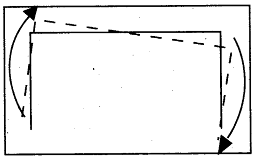


Fig. 14

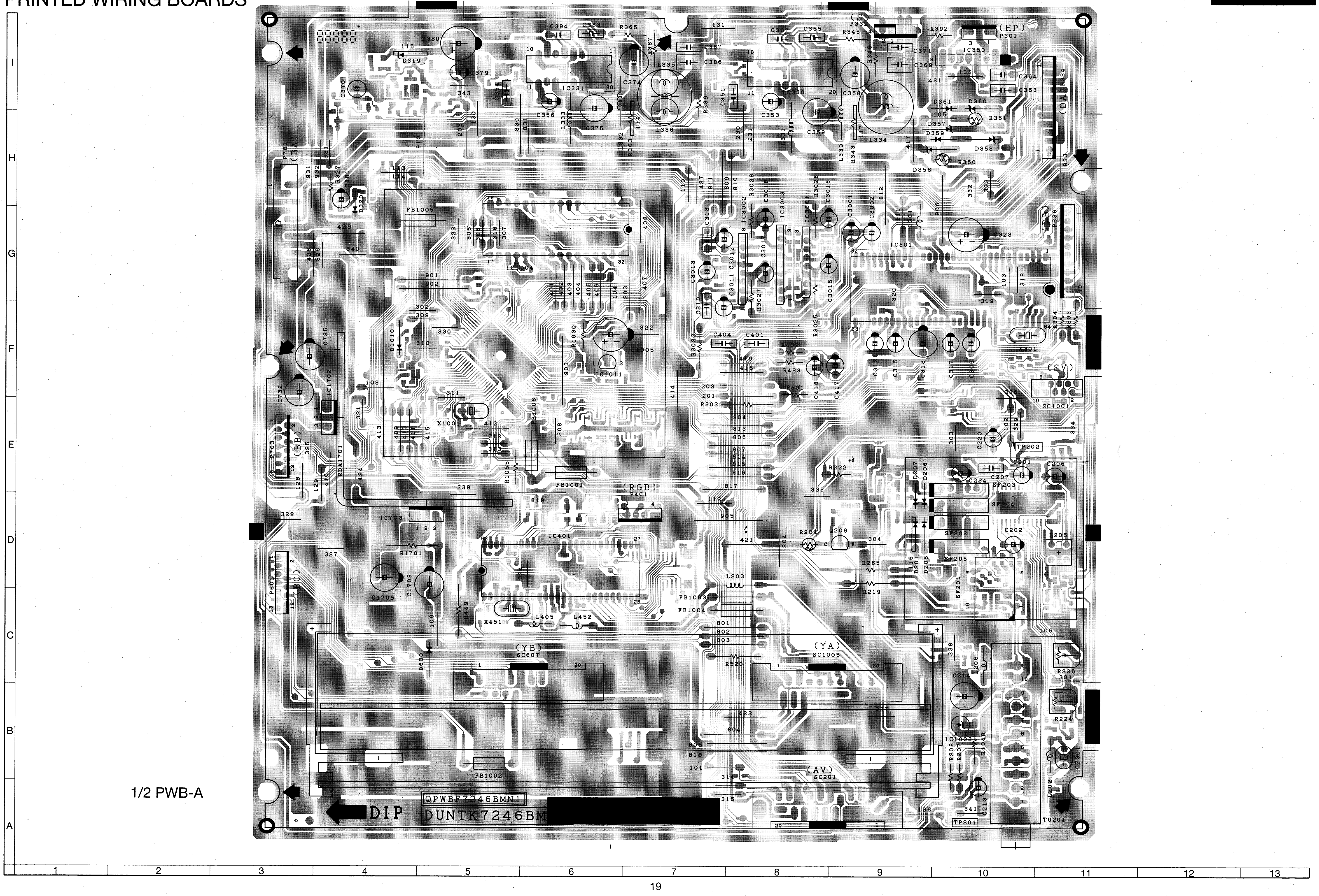
AUTO INSTALLATION OFF/ON

Si vous sélectionez ON, l'appareil effectura une sequence d'autoinstallation quand vous sortirez du SERVICE MODE.

PROTECTIONS CANCEL

- a) Connecter une mire à l'entrée antenne.
- b) Eteindre le téléviseur à l'aide de l'interrupteur général position OFF.
- c) Appuyer simultanément sur les touches volume - et changement de chaîne + allumer le téléviseur à l'aide de l'interrupteur général position ON.
- d) Il apparait à l'écram "Service software Vxx.xx".
- c) Eteindre le téléviseur à l'aide de l'interrupteur général position OFF.

PRINTED WIRING BOARDS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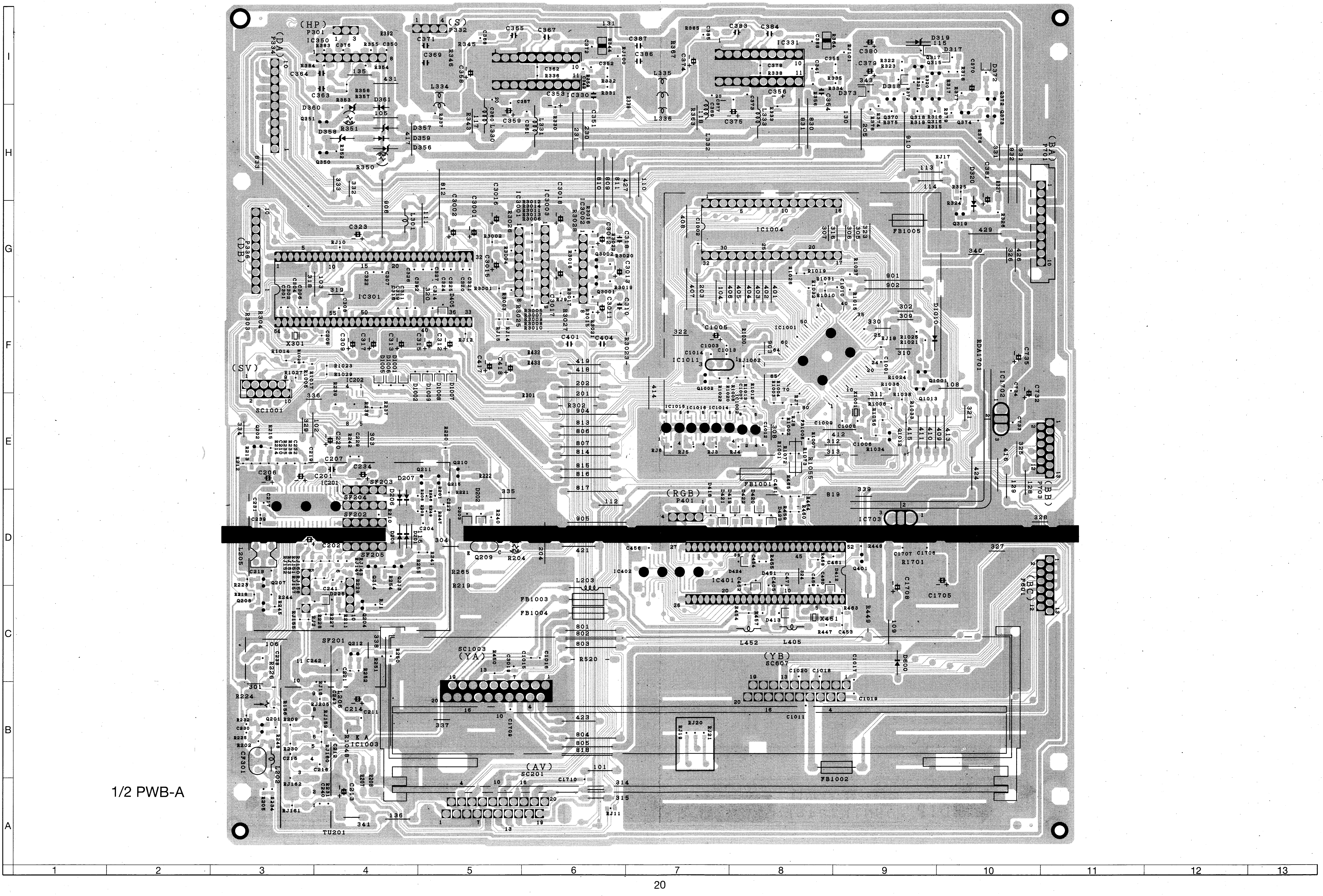
13
(S)
P332
(HP)
P301
(DA)
P334
(DB)
P336
(SV)
SC1001
(BA)
P701
(BB)
P703
(BC)
P601
(RGB)
P401
(YB)
SC607
(YA)
SC1003
(AV)
SC201
IC331
IC330
IC350
IC1004
IC301
IC3001
IC3002
IC3003
IC1011
IC401
IC703
IC1702
IC1003
X1001
X301
X451
TU201
CF301
SF201
SF202
SF203
SF204
SF205
L334
L335
L336
L203
L205
L206
FB1001
FB1002
FB1003
FB1004
FB1005
FB1006
TP201
TP202
QPWBF7246BMN1
DUNTK7246BM
DIP

1/2 PWB-A

PRINTED WIRING BOARDS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IC350
(S)
P332
(DA)
P334
(DB)
P336
IC331
IC330
IC301
X301
(SV)
SC1001
IC202
IC201
SF201
SF202
SF203
SF204
SF205
IC3001
IC3002
IC3003
IC1004
IC1001
IC1011
FB1005
(BA)
P701
IC1702
(BB)
P703
(RGB)
P401
IC703
IC401
IC402
X451
(BC)
P601
L203
FB1003
FB1004
SC1003
(YA)
(YB)
SC607
IC1003
CF301
(AV)
SC201
FB1002
TU201
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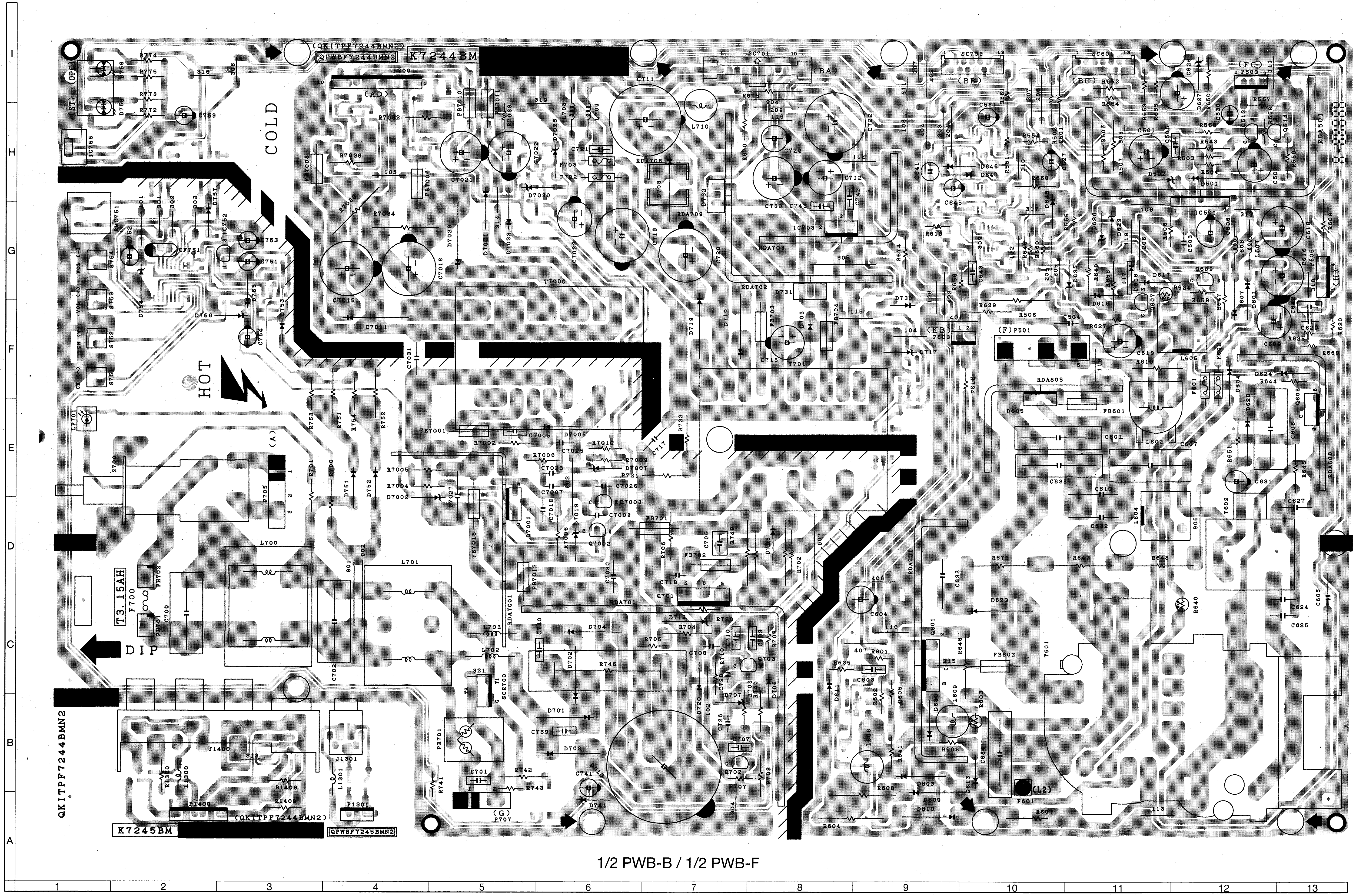
1/2 PWB-A

PRINTED WIRING BOARDS


I
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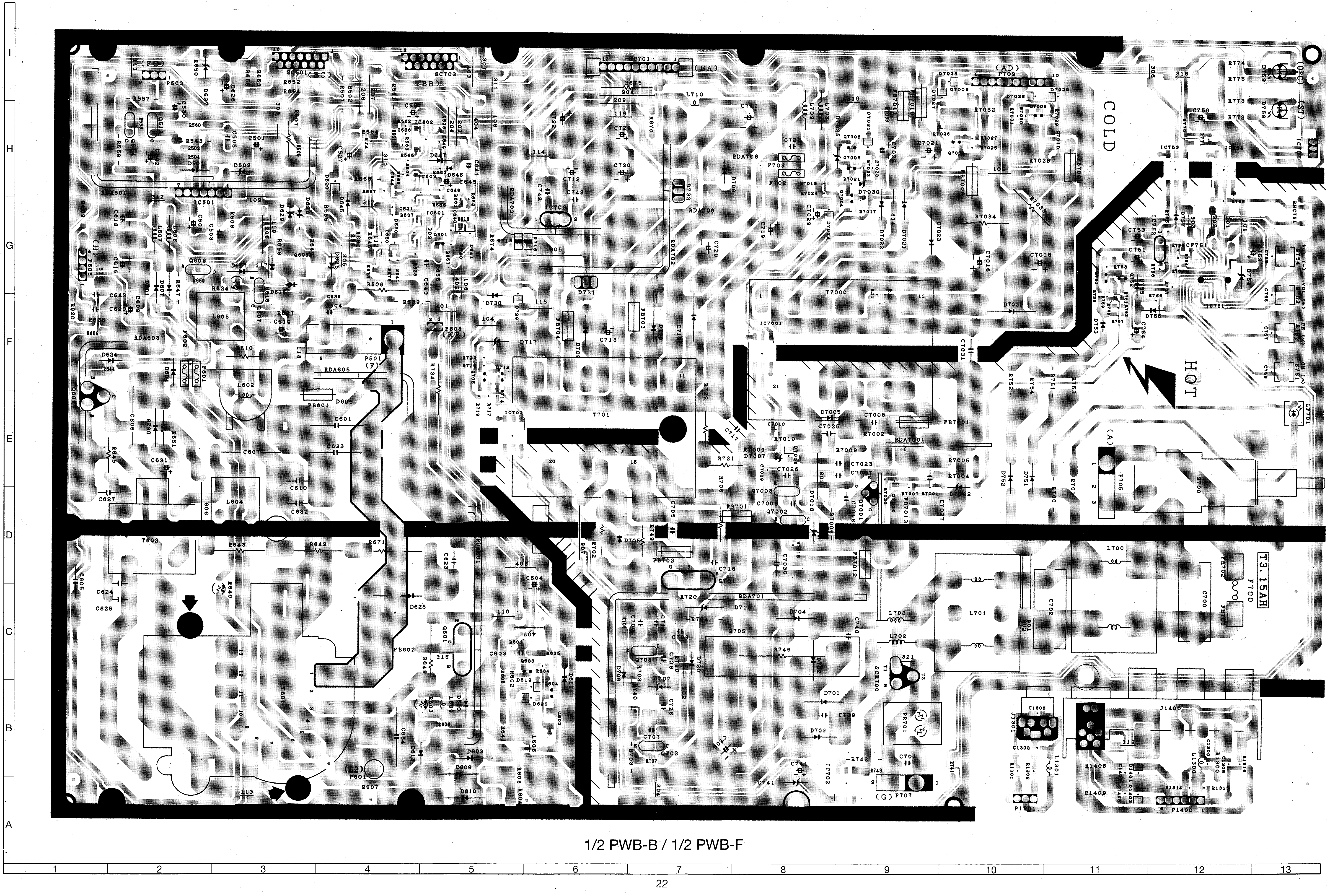
13
(QKITPF7244BMN2)
QPWBF7244BMN2
K7244BM
COLD
HOT
DIP
T3.15AH
F700
(A)
(AD)
(BA)
(BB)
(BC)
(FC)
(KB)
(F) P501
(G)
(H)
(L2)
SC701
SC703
SC601
P709
P705
P707
P503
P603
P601
S700
L700
L701
L702
L703
T7000
T701
T601
Q701
Q601
RDA701
RDA7001
RDA601
RDA605
RDA608
RDA501
J1400
J1301
P1400
P1301
QKITPF7244BMN2
K7245BM
(QKITPF7244BMN2)
QPWBF7245BMN2
IC751
IC752
IC501
IC703
IC755
S754
S753
S752
S751
VOL (-)
VOL (+)
CH (+)
CH (-)
LP701
OPC
ST
PR701
SCR700

1/2 PWB-B / 1/2 PWB-F

PRINTED WIRING BOARDS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HOT
T3.15AH
F700
T701
T7000
IC701
IC7001
SC701
SC601
SC703
P709
P705
P707
J1301
J1400
P1400
P1301
T601
T602
L701
L700
S700
IC501
IC601
IC703
IC751
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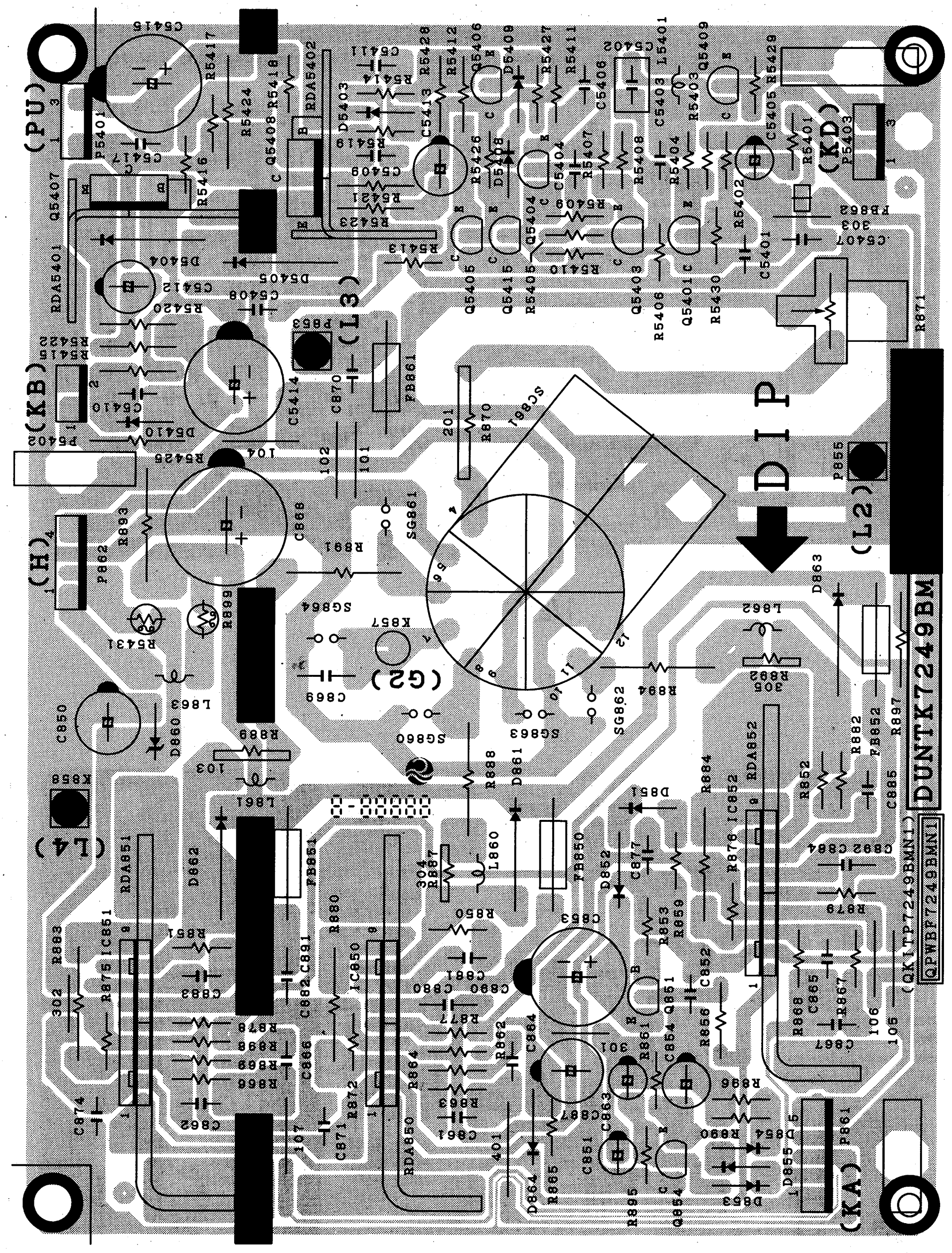
13

1/2 PWB-B / 1/2 PWB-F

PRINTED WIRING BOARDS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(KD)
P5403
(KB)
P5402
(H)
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(L3)
P863
(L2)
P855
(L4)
K858
(G2)
K857
(KA)
P861
DIP
DUNTK7249BM
(QK1TP7249BMN1)
QPWBF7249BMN1
C5415
RDA5401
RDA5402
Q5407
Q5408
Q5401
Q5403
Q5404
Q5405
Q5406
Q5409
Q5415
IC850
IC851
IC852
RDA850
RDA851
RDA852
Q851
Q854
C850
C853
C868
FB850
FB851
FB852
FB861
L860
L861
L862
L863
SG860
SG861
SG862
SG863
SG864
R870
R871
R891
R892
R893
R894
R899
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D862
D863
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201
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401
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1/2 PWB-C

PRINTED WIRING BOARDS

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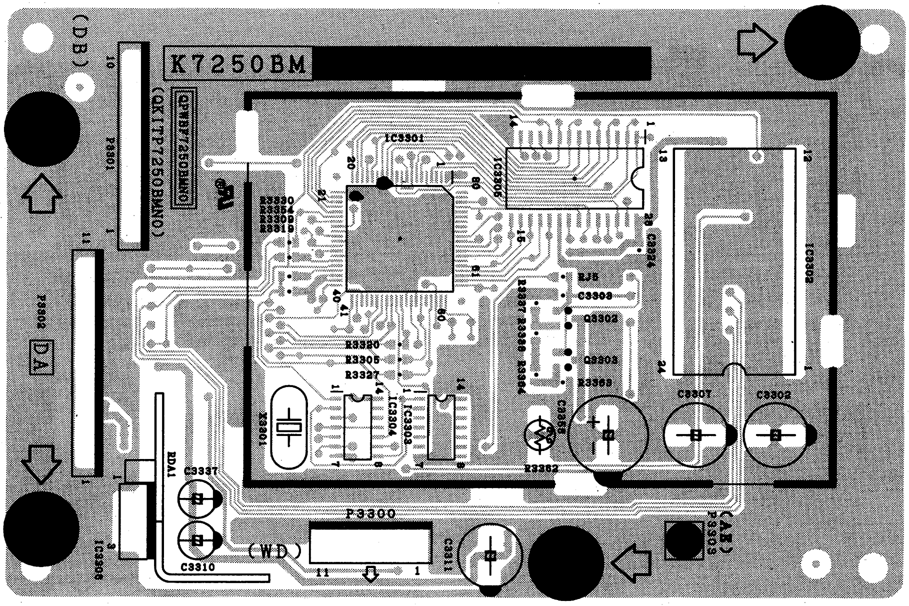
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(DB)
(DA)
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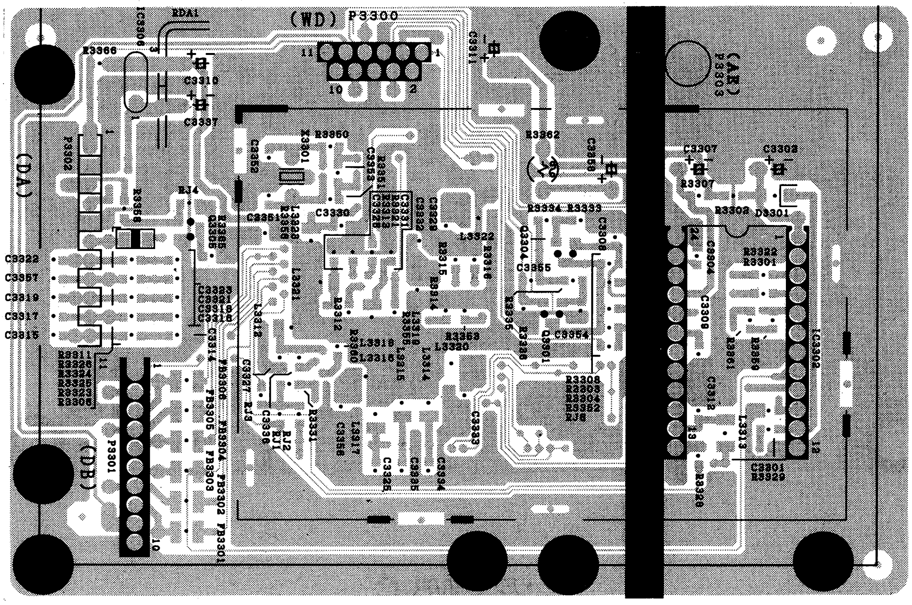
P3302
IC3301
IC3305
IC3302
IC3303
IC3304
IC3306
X3301
Q3302
Q3303
C3307
C3302
C3337
C3310
C3311
P3300
(WD)
(AM)
P3303
EDA1

1/2 PWB-G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(AM)
P3303
(DA)
(DB)
P3301
P3302
IC3302
IC3306
C3310
C3337
C3307
C3302
D3301
X3301

1/2 PWB-G

1	2	3	4	5	6

PRINTED WIRING BOARDS

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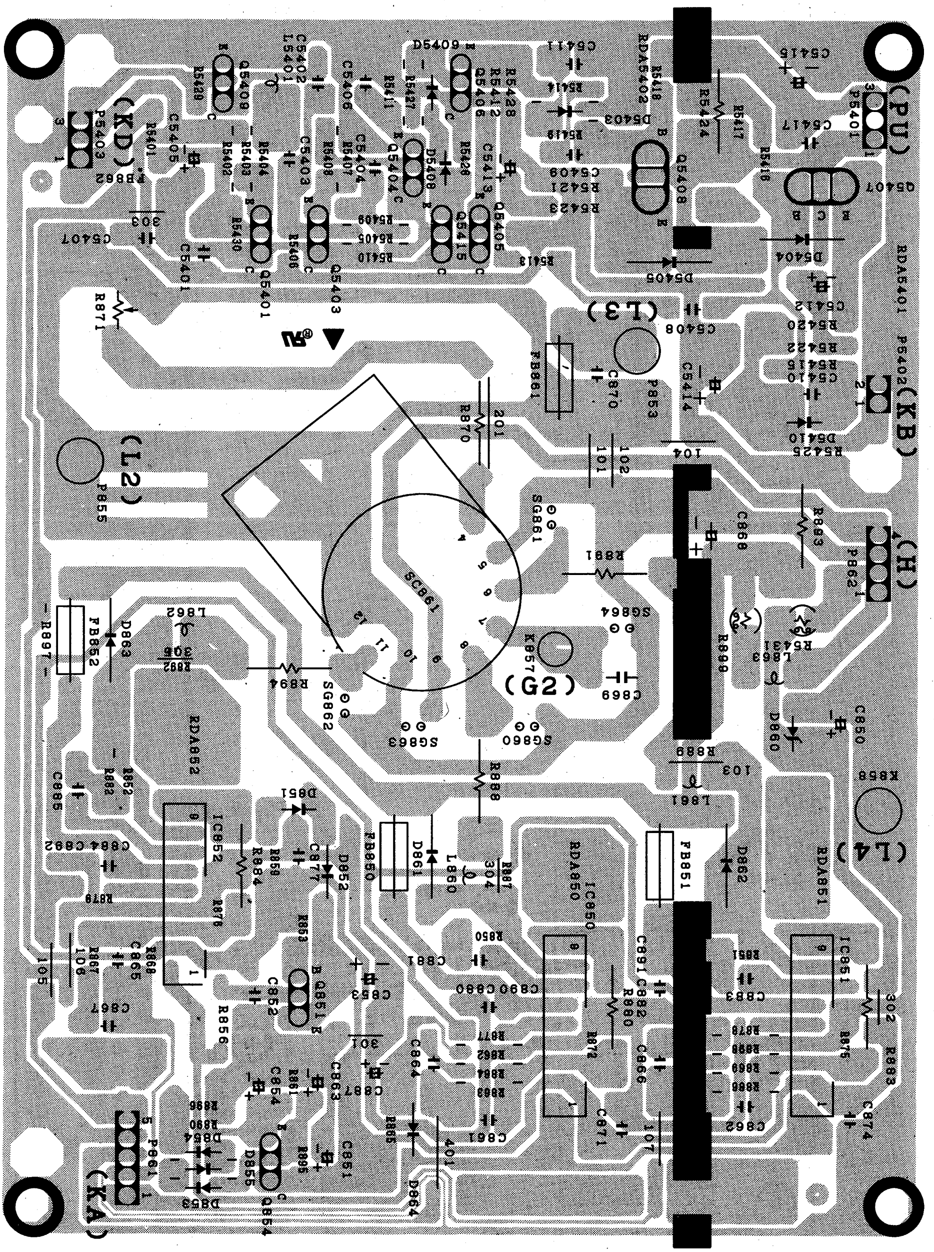
A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(KB)
(L2)
(H)
(G2)
(L4)
(KA)
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P5401
P5402
P855
P862
P853
P861
SG861
SG862
SG863
SG860
SG864
IC850
IC851
IC852
RDA850
RDA851
RDA852
RDA5401
RDA5402
Q5401
Q5403
Q5405
Q5406
Q5407
Q5408
Q5409
Q851
Q854
FB850
FB851
FB852
FB861
D5404
D5405
D5409
D860
D861
D862
D863
D864
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L5401
L5402

1/2 PWB-C

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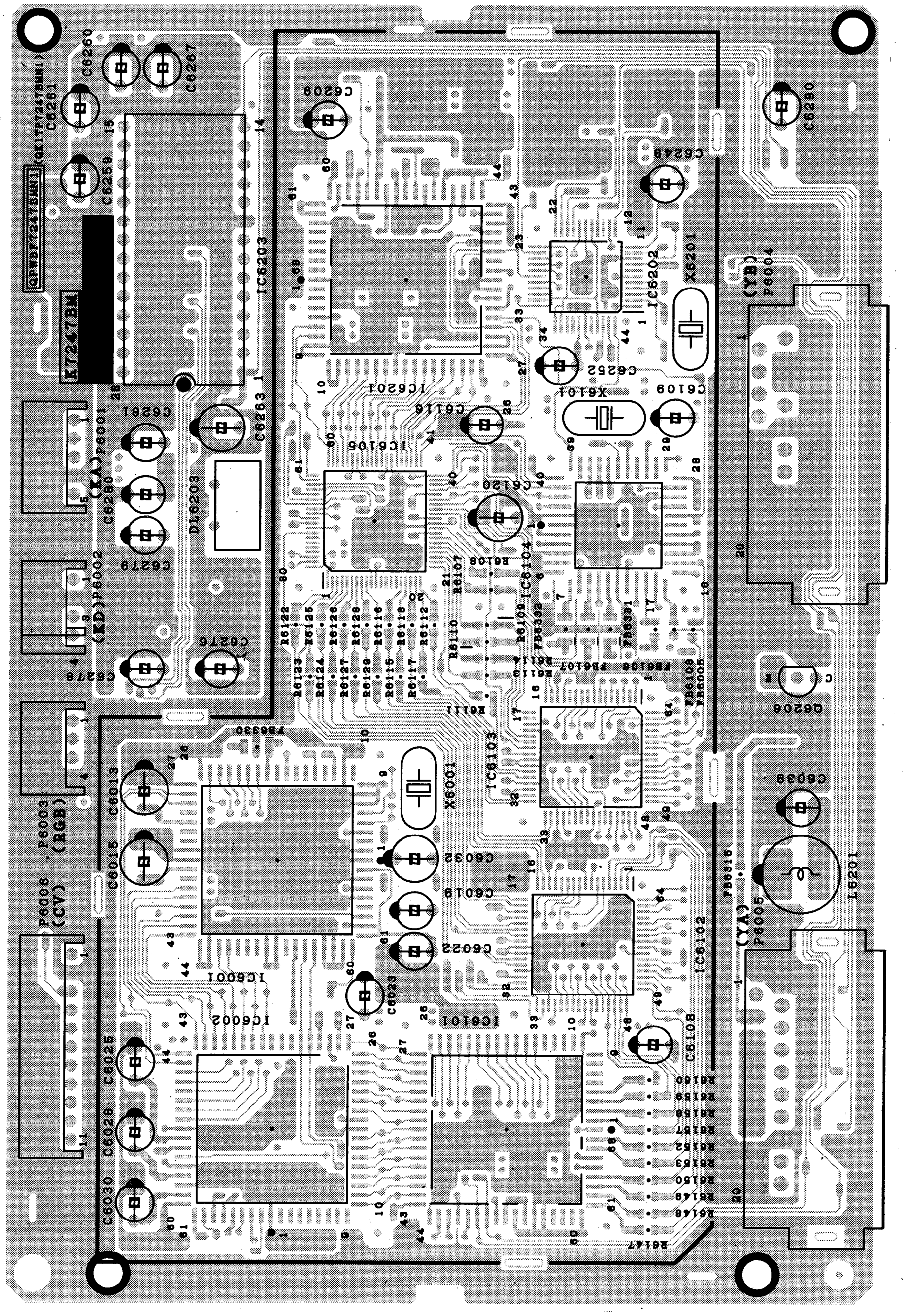
PRINTED WIRING BOARDS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C6267
C6261
C6259
IC6203
K7247BM
(XA) P6001
C6281
C6280
C6279
(KD) P6002
C6278
C6276
C6263
DL6203
P6003 (RGB)
P6006 (CV)
C6013
C6015
C6025
C6028
C6030
IC6001
IC6002
X6001
C6032
C6016
C6022
C6023
IC6101
IC6103
IC6102
C6108
IC6201
C6209
C6118
IC6105
C6120
IC6104
X6101
C6109
C6252
IC6202
X6201
C6249
C6290
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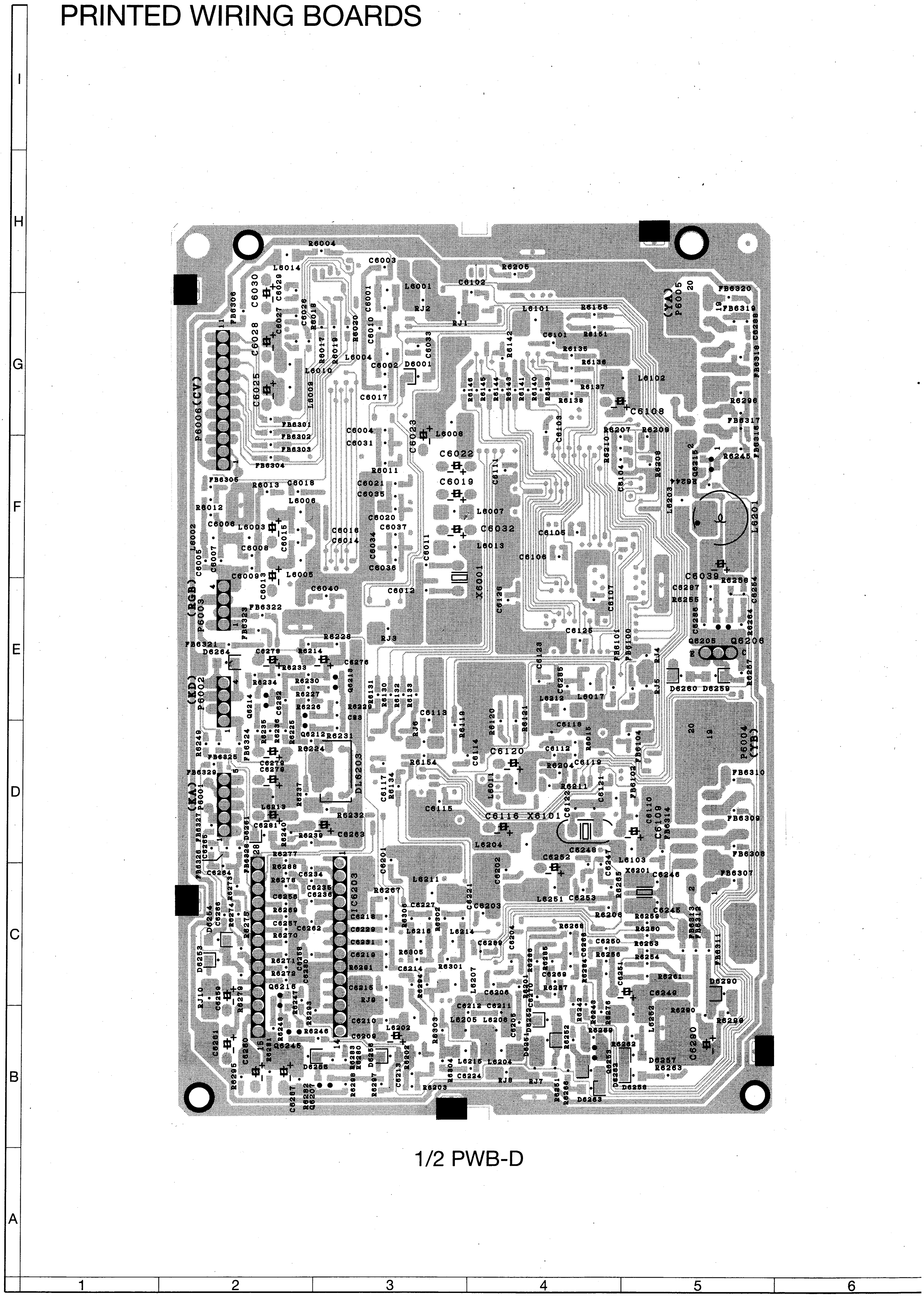
(YA) P6005
C6038
L6201
Q6206
FB6330

1/2 PWB-D

PRINTED WIRING BOARDS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A
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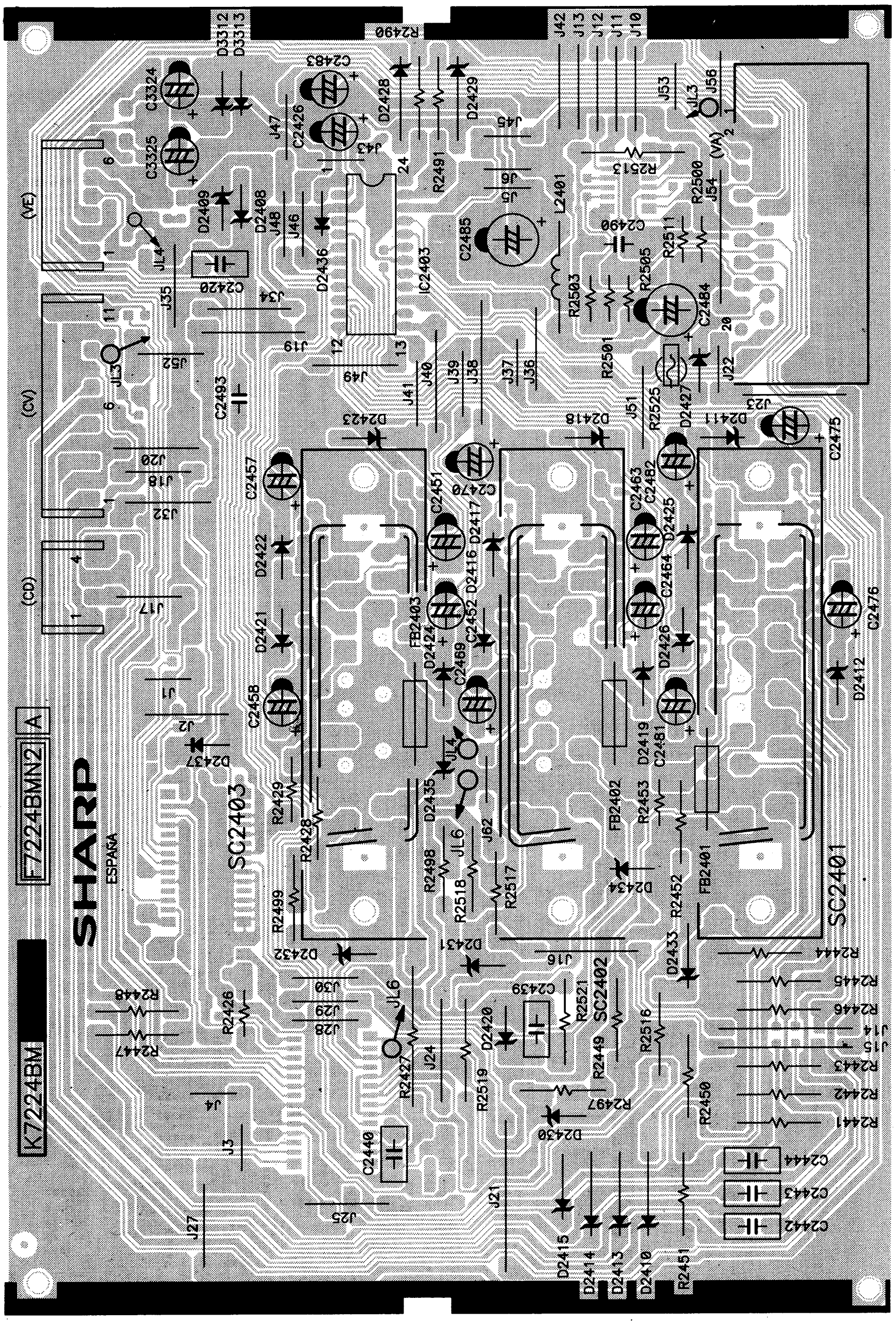
2
3
4
5
6
P6006 (CV)
P6003 (RGB)
P6002 (KD)
P6001 (KA)
P6005 (YA)
P6004 (YB)
IC6203
DL6203
X6001
X6101

1/2 PWB-D

PRINTED WIRING BOARDS


SHARP
ESPAÑA
F7224BMN2 A
K7224BM
SC2401
SC2402
SC2403
IC2403
L2401
FB2401
FB2402
FB2403
(VE)
(CV)
(CD)
(VA)
J10
J11
J12
J13
J42
D3312
D3313
C3324
C3325
C2483
C2426
C2420
C2485
C2484
C2490
C2493
C2457
C2451
C2470
C2463
C2482
C2475
C2464
C2476
C2458
C2469
C2481
C2439
C2440
C2444
C2443
C2442
D2408
D2409
D2428
D2429
D2436
D2423
D2418
D2427
D2411
D2422
D2421
D2417
D2416
D2424
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D2412
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D2431
D2420
D2430
D2415
D2414
D2413
D2410
R2490
R2491
R2513
R2500
R2511
R2505
R2503
R2501
R2525
R2429
R2428
R2499
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R2446
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R2442
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JL3
JL4
JL6
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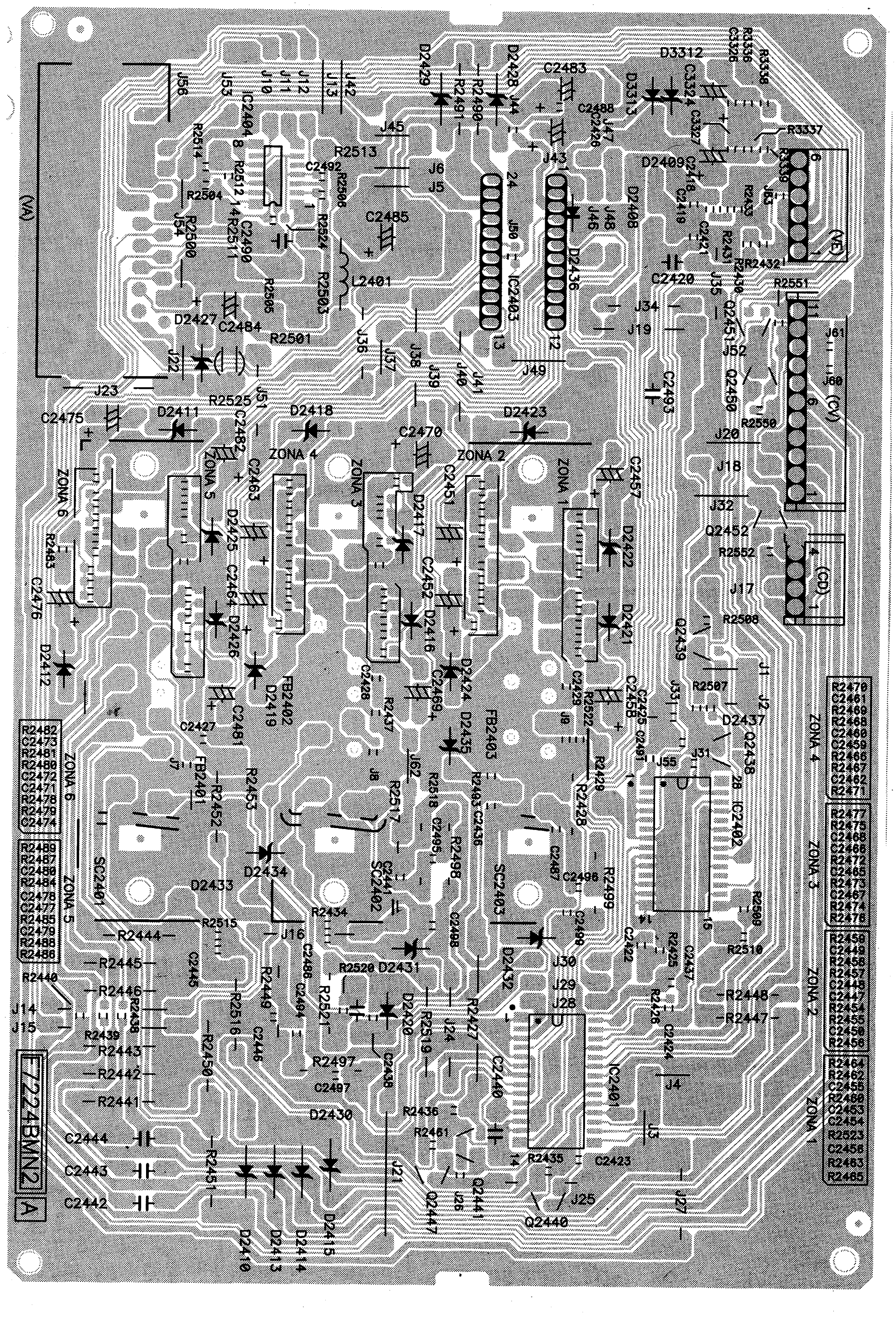
J56
J6
J62

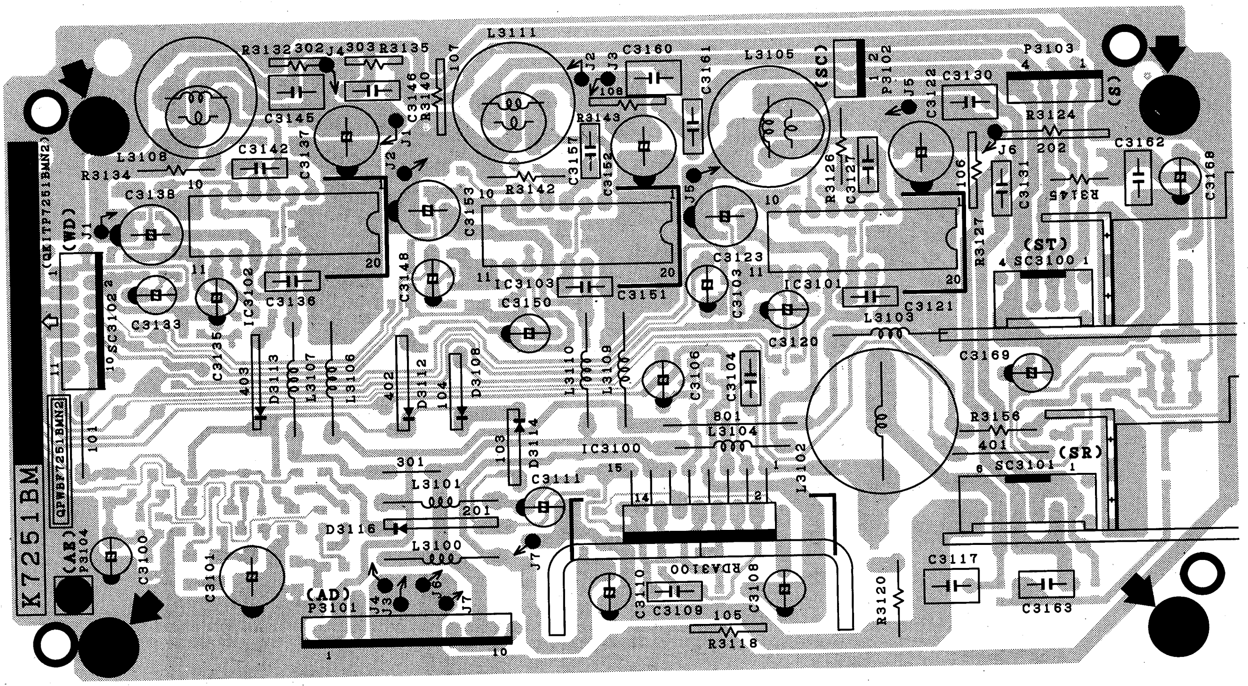
1/2 PWB-E

PRINTED WIRING BOARDS



1/2 PWB-E

PRINTED WIRING BOARDS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QEXTP7251BMN2
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(S)
(ST)
(SR)
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L3108
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L3103
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L3106
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J3
J4
J5
J6
J7
J8
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202
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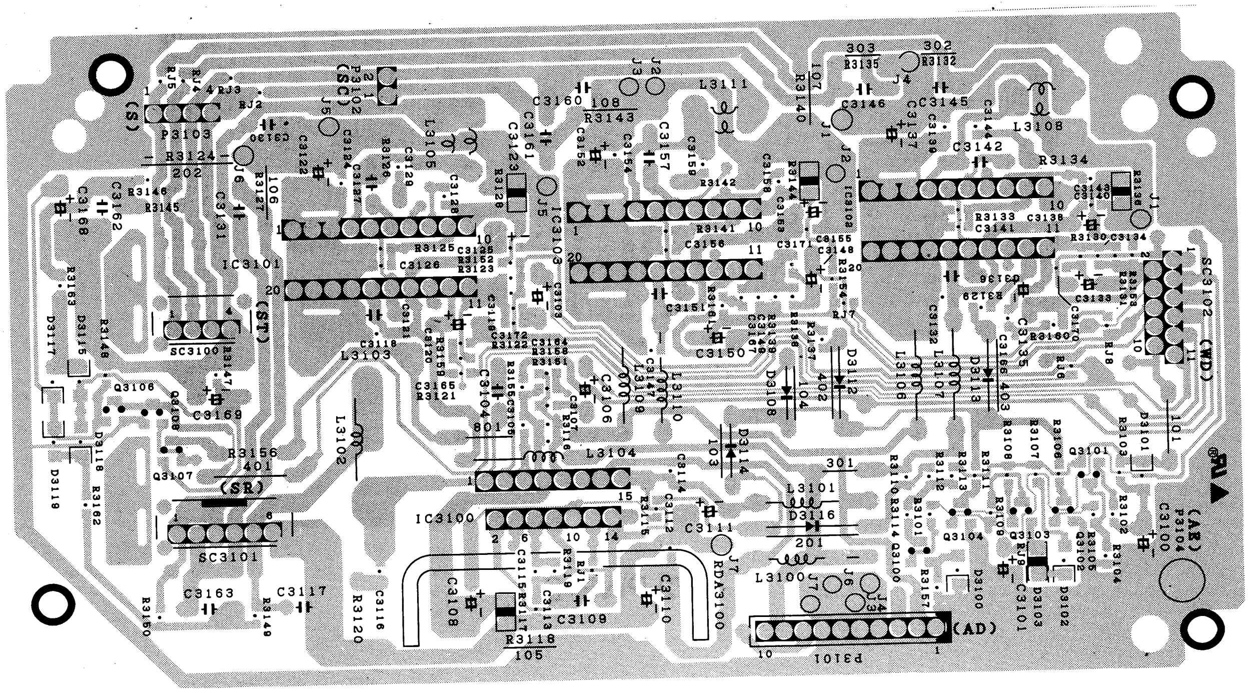
401
402
403
801

1/2 PWB-H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(WD)
(AE)
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SC3101
SC3102
IC3100
IC3101
IC3102
IC3103
RDA3100
L3111
L3105
L3108
L3103
L3102
L3104
L3101
L3100
L3110
L3109
L3107
L3106
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D3100
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D3103
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D3113
D3114
D3116
D3117
D3118
D3119
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R3120
R3124
R3132
R3134
R3135
R3140
R3142
R3143
R3156
C3100
C3101
C3108
C3109
C3110
C3111
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C3161
C3162
C3163
C3168
C3169
101
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202
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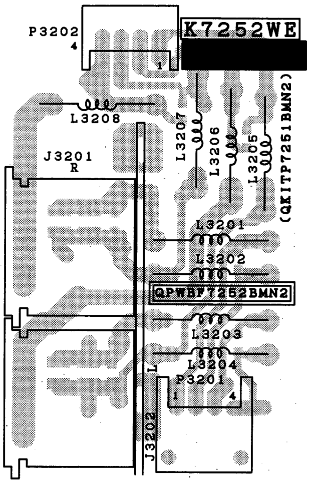
302
303
401
402
403
801

1/2 PWB-H

PRINTED WIRING BOARDS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L3206
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L3203
L3204
P3201
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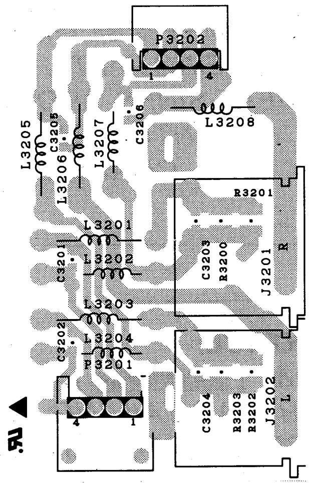
4
L
J3202

1/2 PWB-I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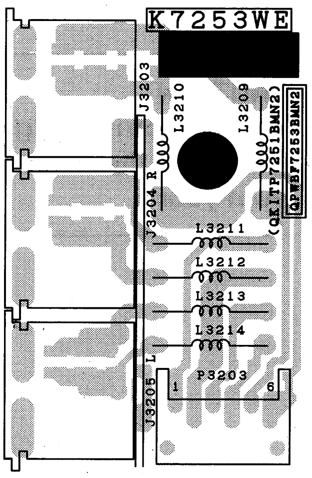
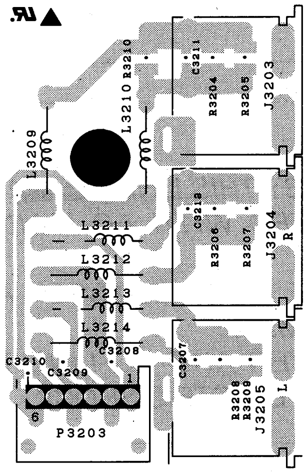
L3207
C3206
R3201
L3201
C3201
L3202
C3203
R3200
J3201
R
L3203
C3202
L3204
P3201
4
1
C3204
R3203
R3202
J3202
L

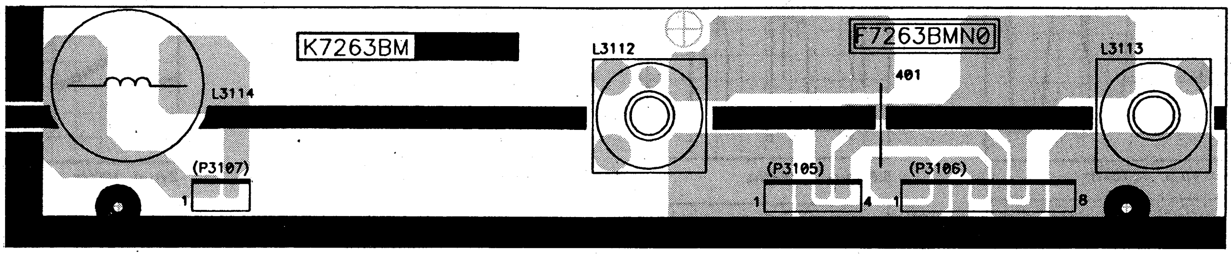
1/2 PWB-I


K7253WE
J3203
L3210
L3209
(QKITP7251BMN2)
QPWBF7253BMN2
J3204 R
L3211
L3212
L3213
L3214
J3205 L
P3203
1
6

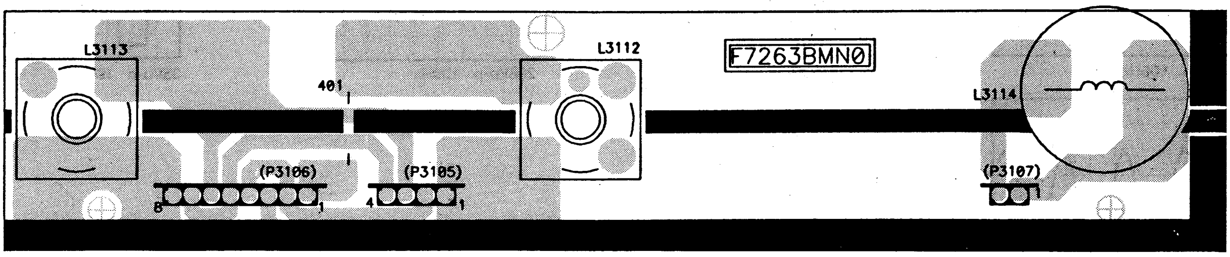
1/2 PWB-J


C3211
L3210
R3210
R3204
R3205
J3203
L3209
C3212
R3206
R3207
J3204
R
L3211
L3212
L3213
L3214
C3208
C3210
C3209
C3207
1
6
P3203
R3208
R3209
J3205
L

1/2 PWB-J


K7263BM
L3112
F7263BMN0
L3113
401
L3114
(P3107)
1
(P3105)
1
4
(P3106)
1
8

1/2 PWB-K


L3113
L3112
F7263BMN0
401
L3114
(P3106)
8
1
(P3105)
4
1
(P3107)

1/2 PWB-K

I
H
G
F
E
D
C
B
A

1 2 3 4 5 6

DESCRIPTION OF SCHEMATIC DIAGRAM

SAFETY NOTE:

1. *DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACEING PARTS.*
2. *SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.*

IMPORTANT SAFETY NOTICE:
PARTS MARKED WITH "⚠" (▨) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

SEVICE PRECAUTION:
THE AREA ENCLOSED BY THIS LINE (■ ■) IS DIRECTLY CONNECTED WITH AC MAINS VOLTAGE.
WHEN SERVICING THE AREA, CONNECT AN ISOLATING TRANSFORMER.
BETWEEN TV RECEIVER AND AC LINE TO ELIMINATE HAZARD OF ELECTRIC SHOCK.

NOTE:

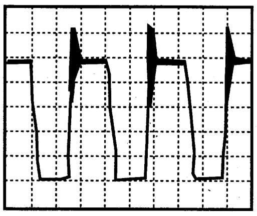
1. The unit of resistance "ohm" is omitted (K = 1000 ohms. M = Megaohm).
2. All resistors are 1/8 watt. unless otherwise noted.
3. All capacitors are μF, unless atherwise noted (P = μμF).
4. The capacitor with Part No. RC-FZ9XXXBMNJ is designed to with stand 63V.

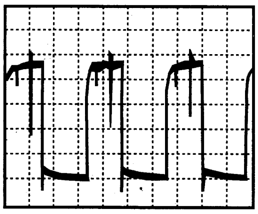
WAVEFORM MEASUREMET CONDITION

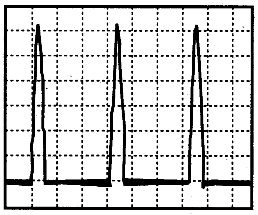
Colour bar generator signal of 70 dB from RF input.

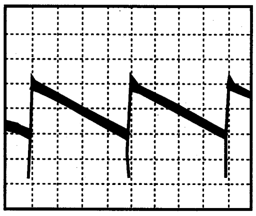
CAUTION
This circuit diagram is original one, therefore there may be a slight difference from yours.

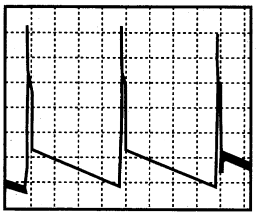
WAVE FORMS

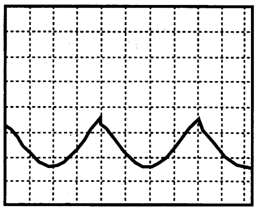
①

616 Vp-p 63.75kHz

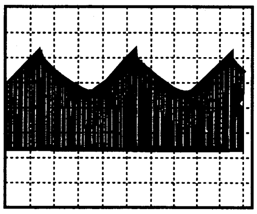
②

5.6 Vp-p 31.25Khz

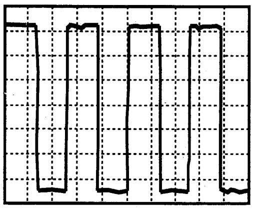
③

1.29 KV 31.25KHz

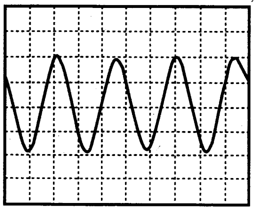
④

2Vp-p 100Hz

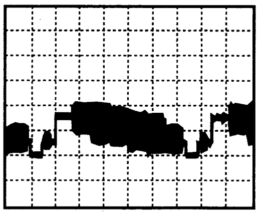
⑤

67Vp-p 100Hz

⑥

2Vp-p 100Hz

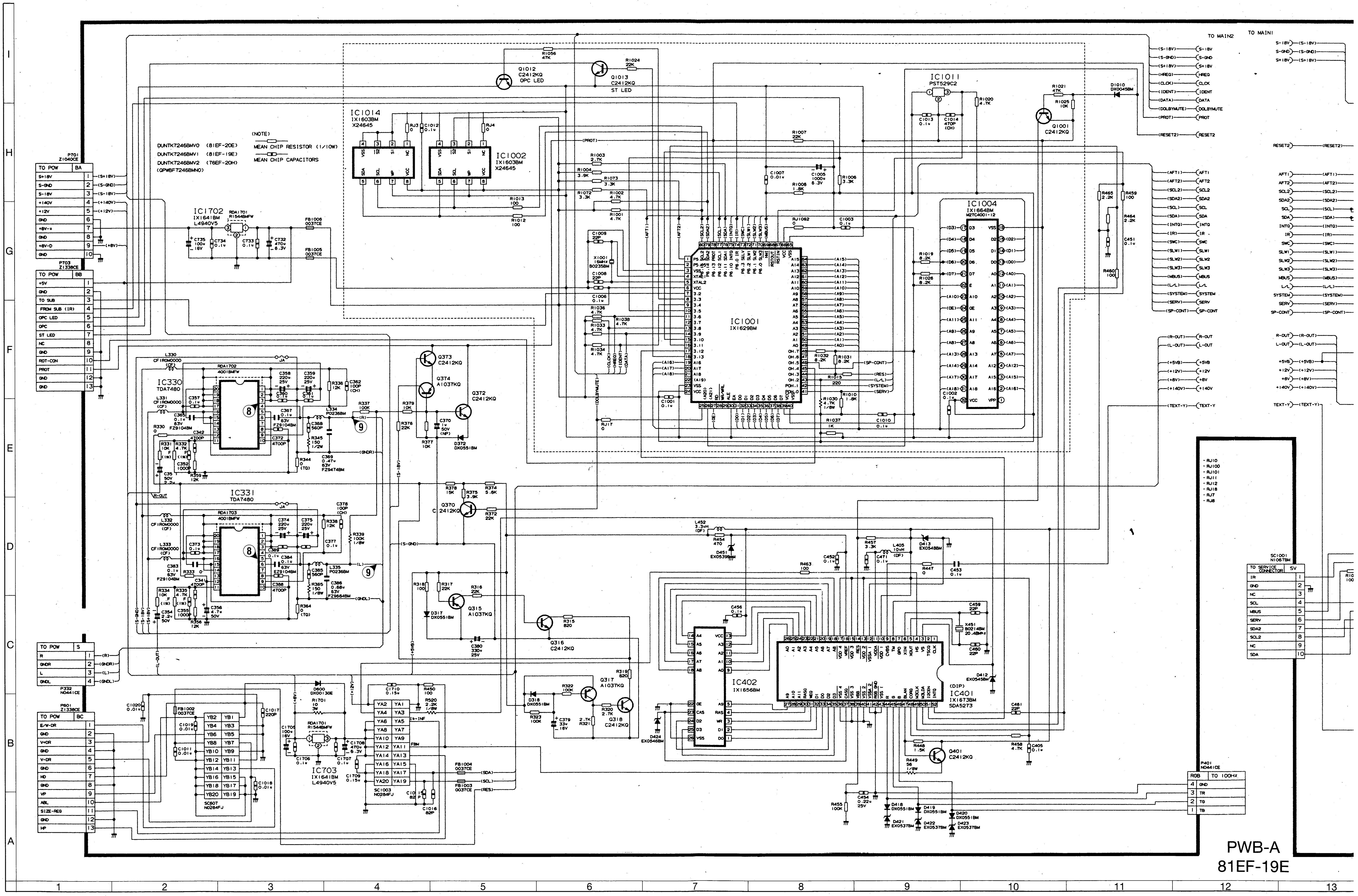
⑦

208Vp-p 100Hz

⑧

35Vp-p 160KHz

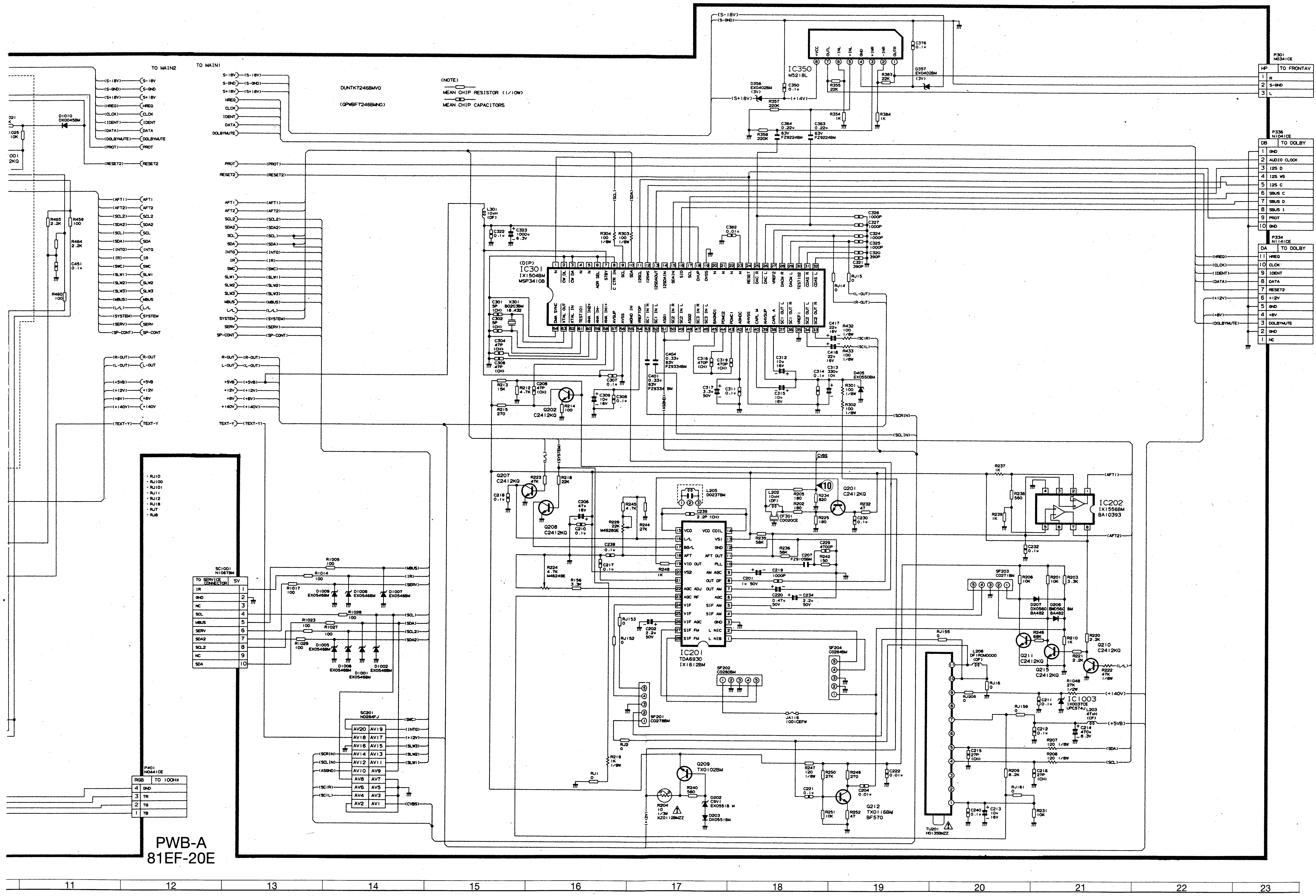
⑨

19Vp-p 400Hz (Audio Out)

⑩

1.1Vp-p 50Hz

SCHEMATIC DIAGRAM MOTHER UNIT 81EF-19E



DUNTKT246BMV0 (81EF-20E)
DUNTKT246BMV1 (81EF-19E)
DUNTKT246BMV2 (76EF-20H)
(QPWBFT246BMNO)
(NOTE)
MEAN CHIP RESISTOR (1/10W)
MEAN CHIP CAPACITORS
IC1001
IX1629BM
IC1002
IX1603BM
X24645
IC1014
IX1603BM
X24645
IC1004
IX1664BM
M2TC4001-12
IC1011
PST529C2
IC1702
IX1641BM
L4940V5
IC330
TDA7480
IC331
TDA7480
IC703
IX1641BM
L4940V5
IC402
IX1656BM
IC401
IX1673BM
SDA5273
Q1012
C2412KQ
OPC LED
Q1013
C2412KQ
ST LED
Q1001
C2412KQ
Q373
C2412KQ
Q374
A1037KQ
Q372
C2412KQ
Q370
C2412KQ
Q315
A1037KQ
Q316
C2412KQ
Q317
A1037KQ
Q318
C2412KQ
Q401
C2412KQ
PT01
Z1040CE
P703
Z1338CE
P332
N0441CE
P601
Z1338CE
P401
N0441CE
SC1001
N1067BM
SC1003
N0284FJ
SC507
N0284FJ
TO POW
BA
BB
S
BC
TO MAIN2
TO MAIN1
TO SERVICE CONNECTOR
SV
RGB
TO 100Hz
PWB-A
81EF-19E
I
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
13


TO MAIN2
TO MAIN1
DUNTK7246BMV0
(QPWBF7246BMN0)
(NOTE)
MEAN CHIP RESISTOR (1/10W)
MEAN CHIP CAPACITORS
IC350
M5218L
IC301
IX1504BM
MSP3410B
X301
B0203BM
18.432
IC201
TDA6930
IX1612BM
IC202
IX1556BM
BA10393
IC1003
IX0037CE
UPC574J
Q202 C2412KQ
Q207 C2412KQ
Q208 C2412KQ
Q201 C2412KQ
Q209 TX0102BM
Q210 C2412KQ
Q211 C2412KQ
Q215 C2412KQ
Q212 TX0116BM BF570
TU201 H0135BMZZ
L205 D0237BM
SF201 C0278BM
SF202 C0280BM
SF203 C0271BM
SF204 C0264BM
JA116 1001CEFW
P301 N0341CE
HP TO FRONTAV
R
S-GND
L
P336 N1041CE
DB TO DOLBY
GND
AUDIO CLOCK
I2S D
I2S WS
I2S C
SBUS C
SBUS D
SBUS I
PROT
P334 N1141CE
DA TO DOLBY
HREQ
CLOCK
IDENT
DATA
RESET2
+12V
GND
+8V
DOLBYMUTE
NC
SC1001 N1067BM
TO SERVICE CONNECTOR
SV
IR
SCL
MBUS
SERV
SDA2
SCL2
SDA
SC201 N0284FJ
AV20 AV19
AV18 AV17
AV16 AV15
AV14 AV13
AV12 AV11
AV10 AV9
AV8 AV7
AV6 AV5
AV4 AV3
AV2 AV1
P401 N0441CE
RGB TO 100Hz
TR
TG
TB
(S-18V)
(S-GND)
(S+18V)
(HREQ)
(CLOCK)
(IDENT)
(DATA)
(DOLBYMUTE)
(PROT)
(RESET2)
(AFT1)
(AFT2)
(SCL2)
(SDA2)
(SCL)
(SDA)
(INTQ)
(IR)
(SWC)
(SLW1)
(SLW2)
(SLW3)
(MBUS)
(L/L)
(SYSTEM)
(SERV)
(SP-CONT)
(R-OUT)
(L-OUT)
(+5VB)
(+12V)
(+8V)
(+140V)
(TEXT-Y)
(SCRIN)
(SCLIN)
(ASGND)
(SCIR)
(SCIL)
(CVBS)
(+14V)
CVBS
⑩
- RJ10
- RJ100
- RJ101
- RJ11
- RJ12
- RJ18
- RJ7
- RJ8
PWB-A
81EF-20E
11
12
13
14
15
16
17
18
19
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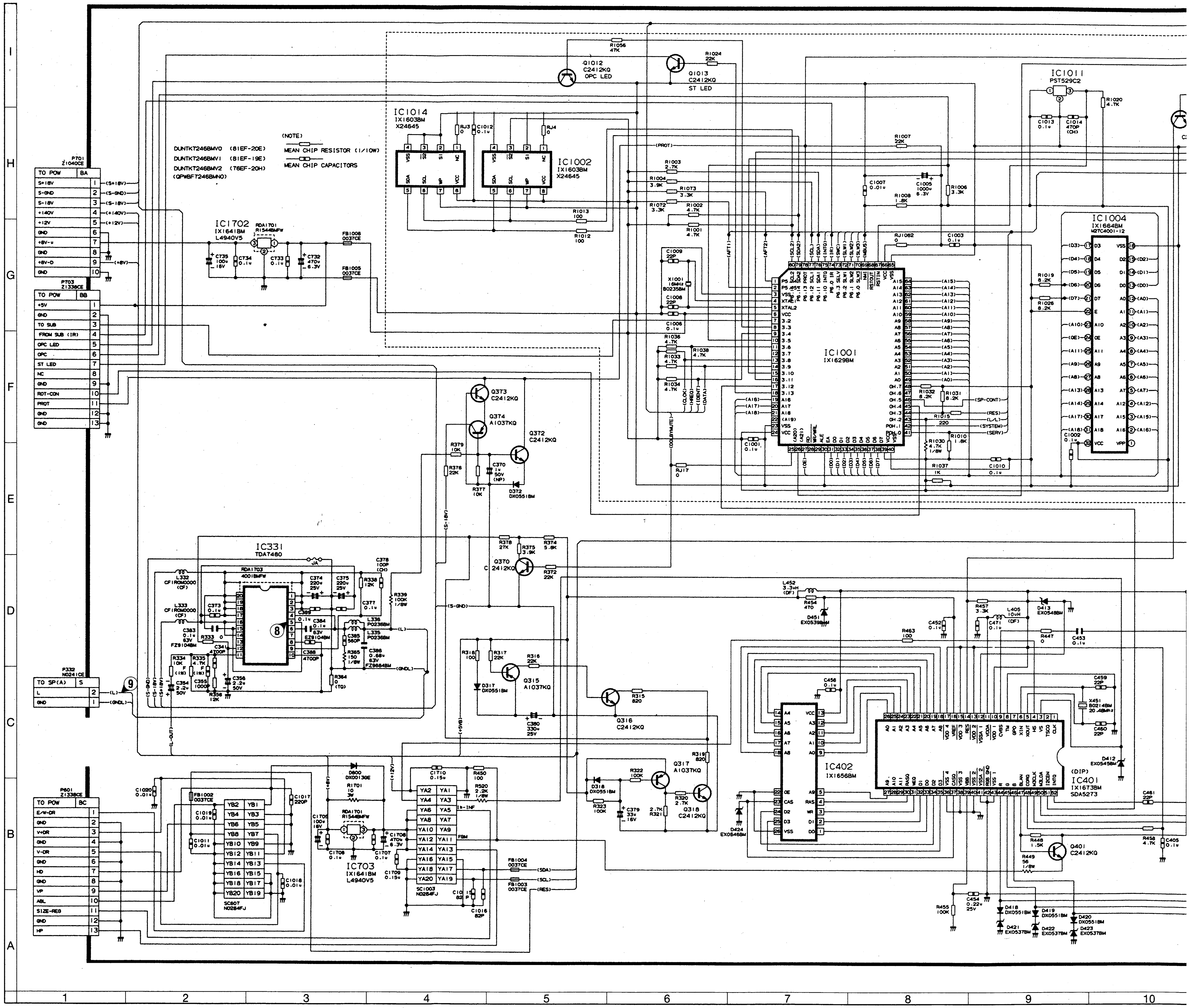
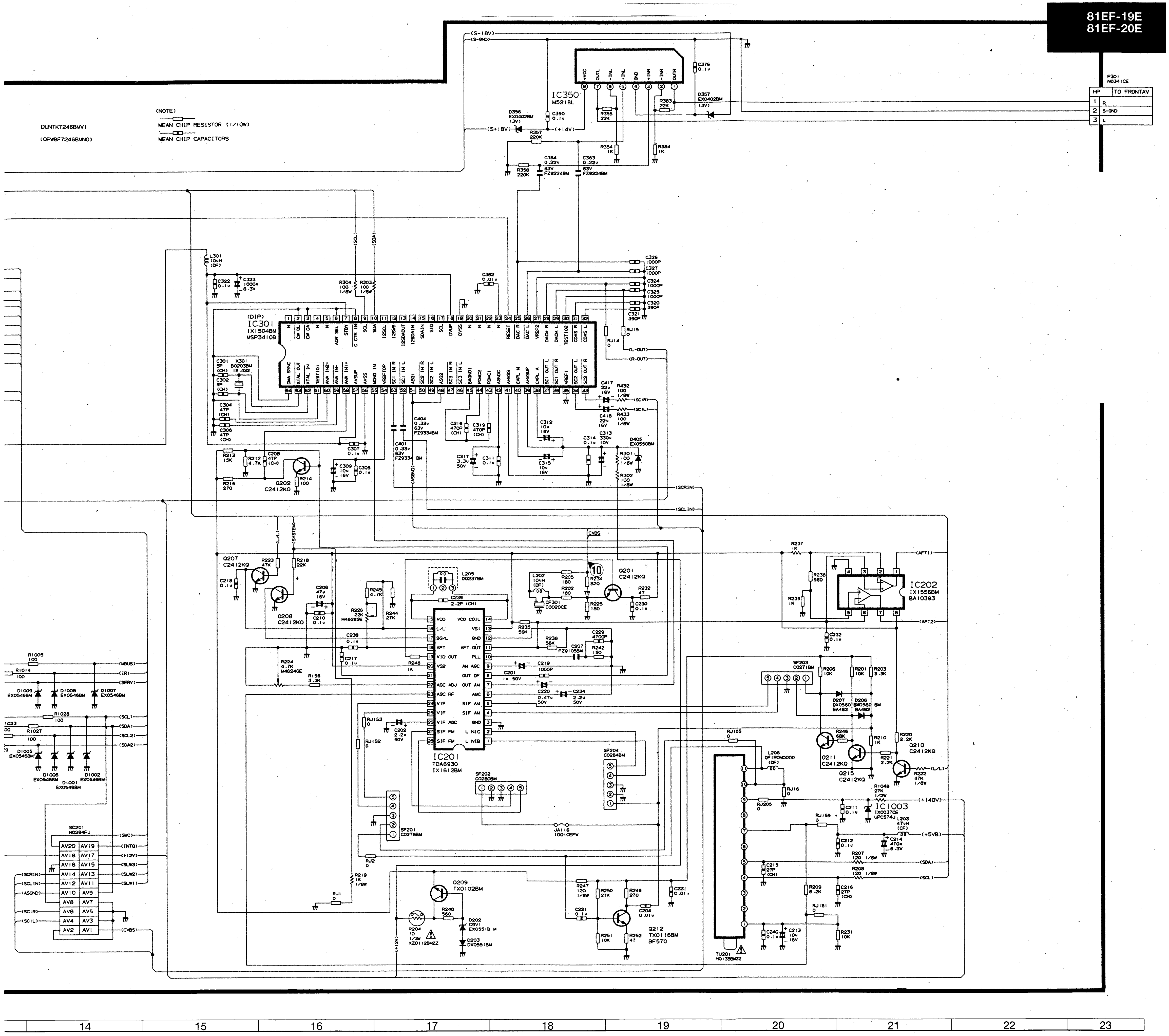
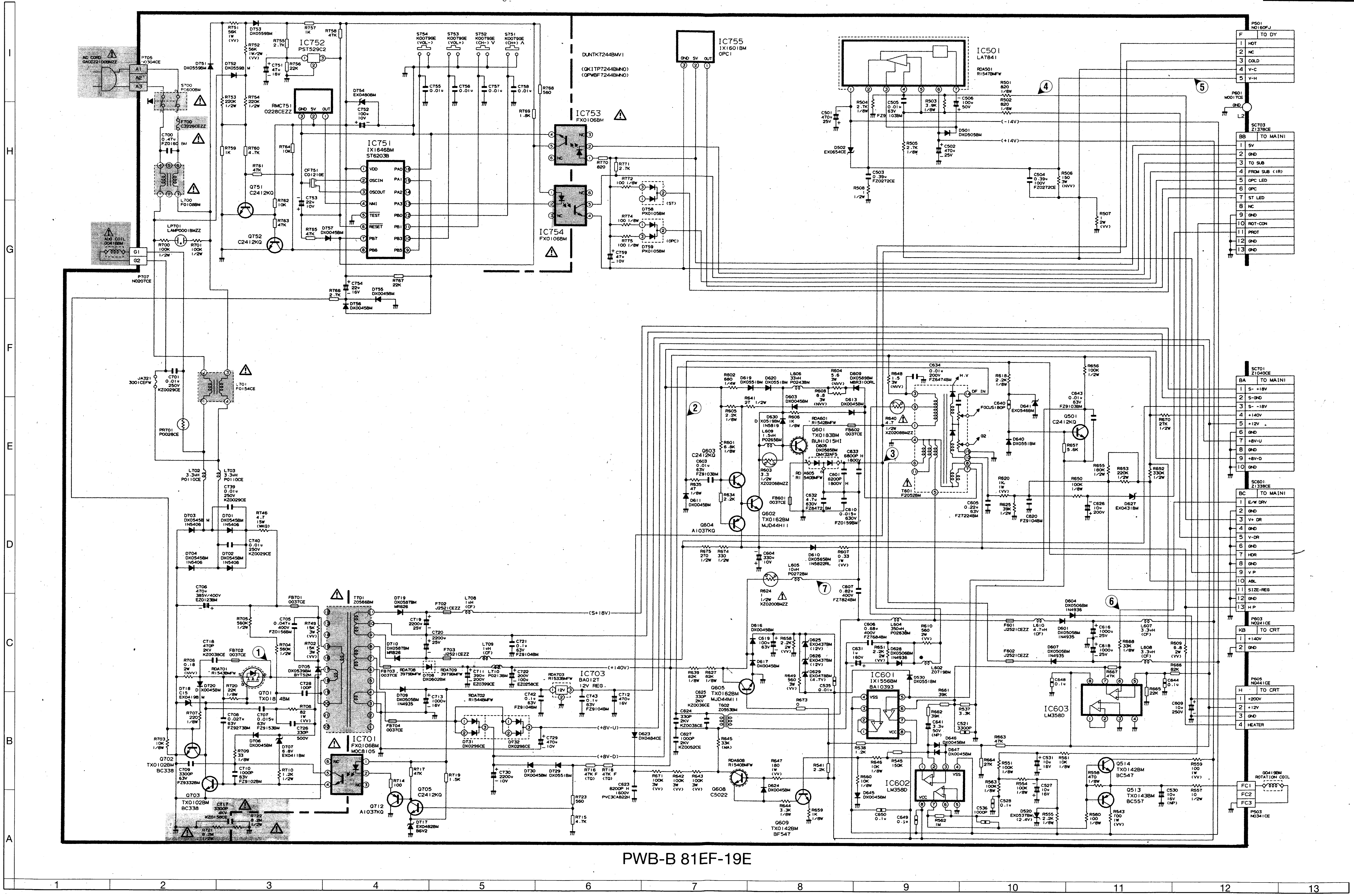
21
22
23

SCHEMATIC DIAGRAM MOTHER UNIT 81EF-20E


DUNTKT2468MV0 (81EF-20E)
DUNTKT2468MV1 (81EF-19E)
DUNTKT2468MV2 (76EF-20H)
(QPWBFT2468MN0)
(NOTE)
MEAN CHIP RESISTOR (1/10W)
MEAN CHIP CAPACITORS
P701 Z1040CE
TO POW BA
P703 Z1338CE
TO POW BB
P332 N0241CE
TO SP(A) S
P601 Z1338CE
TO POW BC
IC1702 IX1641BM L4940V5
IC1014 IX1603BM X24645
IC1002 IX1603BM X24645
Q1012 C2412KQ OPC LED
Q1013 C2412KQ ST LED
IC1011 PST529C2
IC1001 IX1629BM
IC1004 IX1664BM M27C4001-12
IC331 TDA7480
Q373 C2412KQ
Q374 A1037KQ
Q372 C2412KQ
Q370 C2412KQ
Q315 A1037KQ
Q316 C2412KQ
Q317 A1037KQ
Q318 C2412KQ
IC703 IX1641BM L4940V5
SC607 N0284FJ
SC1003 N0284FJ
IC402 IX1656BM
IC401 IX1673BM SDA5273
(DIP)
Q401 C2412KQ
X451 B0214BM 20.48MHz
X1001 16MHz B0235BM
A
B
C
D
E
F
G
H
I
1
2
3
4
5
6
7
8
9
10


DUNTK7246BMV1
(QPWBF7246BMN0)
(NOTE)
MEAN CHIP RESISTOR (1/10W)
MEAN CHIP CAPACITORS
IC350
M5218L
IC301
IX1504BM
MSP3410B
IC201
TDA6930
IX1612BM
IC202
IX1556BM
BA10393
IC1003
IX0037CE
UPC574J
TU201
H0135BMZZ
SC201
N0264FJ
P301
N0341CE
HP
TO FRONTAV
S-GND
Q201
Q202
Q207
Q208
Q209
Q210
Q211
Q212
Q215
SF201
SF202
SF203
SF204
(S-18V)
(S-GND)
(S+18V)
(+14V)
(SCL)
(SDA)
(L-OUT)
(R-OUT)
(SCRIN)
(SCLIN)
(AFT1)
(AFT2)
(+140V)
(+5VB)
(MBUS)
(IR)
(SERV)
(CVBS)
14
15
16
17
18
19
20
21
22
23

SCHEMATIC DIAGRAM POWER UNIT 81EF-19E


AC CORD
P705
S700
F700
LPT01
ADG COIL
P707
IC752 PST529C2
RMC751 0228CEZZ
IC751 IX1646BM ST6203B
VDD
OSCIN
OSCOUT
NMI
TEST
RESET
PB7
PB6
PA0
PA1
PA2
PA3
PB0
PB1
PB3
PB5
Q751 C2412KQ
Q752 C2412KQ
S754 K0079GE (VOL-)
S753 K0079GE (VOL+)
S752 K0079GE (CH-) V
S751 K0079GE (CH+) Λ
DUNTK7244BMV1
(QKITP7244BMN0)
(QPWBF7244BMN0)
IC753 FX0106BM
IC754 FX0106BM
IC755 IX1601BM OPC1
GND 5V OUT
D758 PX0105BM (ST)
D759 PX0105BM (OPC)
IC501 LA7841
RDA501 R1547BMFW
JA321 3001CEFW
L701 F0154CE
PRT01 P0026CE
L702 3.3uH P0110CE
L703 3.3uH P0110CE
C706 470u 385V/400V EZ0123BM
T701 Z0566BM
IC701 FX0106BM MOC8105
IC703 BA012T 12V REG.
Q701 TX0184BM
Q702 TX0102BM BC338
Q703 TX0102BM BC338
Q712 A1037KQ
Q705 C2412KQ
(S+18V)
(+140V)
(+8V-U)
(+8V-D)
(-14V)
(+14V)
Q601 TX0183BM BUH1015HI
Q602 TX0162BM MJD44H11
Q603 C2412KQ
Q604 A1037KQ
Q605 TX0162BM MJD44H11
Q608 C5022
Q609 TX0142BM BF547
T601 F2052BM
H.V
DF IN
FOCUS1 BOP
G2
Q501 C2412KQ
IC601 IX1556BM BA10393
IC602 LM358D
IC603 LM358D
Q514 TX0142BM BC547
Q513 TX0143BM BC557
P501 N0160FJ
F | TO DY
1 HOT
2 NC
3 COLD
4 V-C
5 V-H
P601 M0017CE
GND
L2
SC703 Z1338CE
BB | TO MAIN1
1 5V
2 GND
3 TO SUB
4 FROM SUB (IR)
5 OPC LED
6 OPC
7 ST LED
8 NC
9 GND
10 ROT-CON
11 PROT
12 GND
13 GND
SC701 Z1040CE
BA | TO MAIN1
1 S- +18V
2 S-GND
3 S- -18V
4 +140V
5 +12V
6 GND
7 +8V-U
8 GND
9 +8V-D
10 GND
SC601 Z1338CE
BC | TO MAIN1
1 E/W DRV
2 GND
3 V+ DR
4 GND
5 V-DR
6 GND
7 HDR
8 GND
9 V P
10 ABL
11 SIZE-REG
12 GND
13 H P
P603 N0241CE
KB | TO CRT
1 +140V
2 GND
P605 N0441CE
H | TO CRT
1 +200V
2 +12V
3 GND
4 HEATER
G0419BM ROTATION COIL
FC1
FC2
FC3
P503 N0341CE
①
②
③
④
⑤
⑥
⑦
I
H
G
F
E
D
C
B
A
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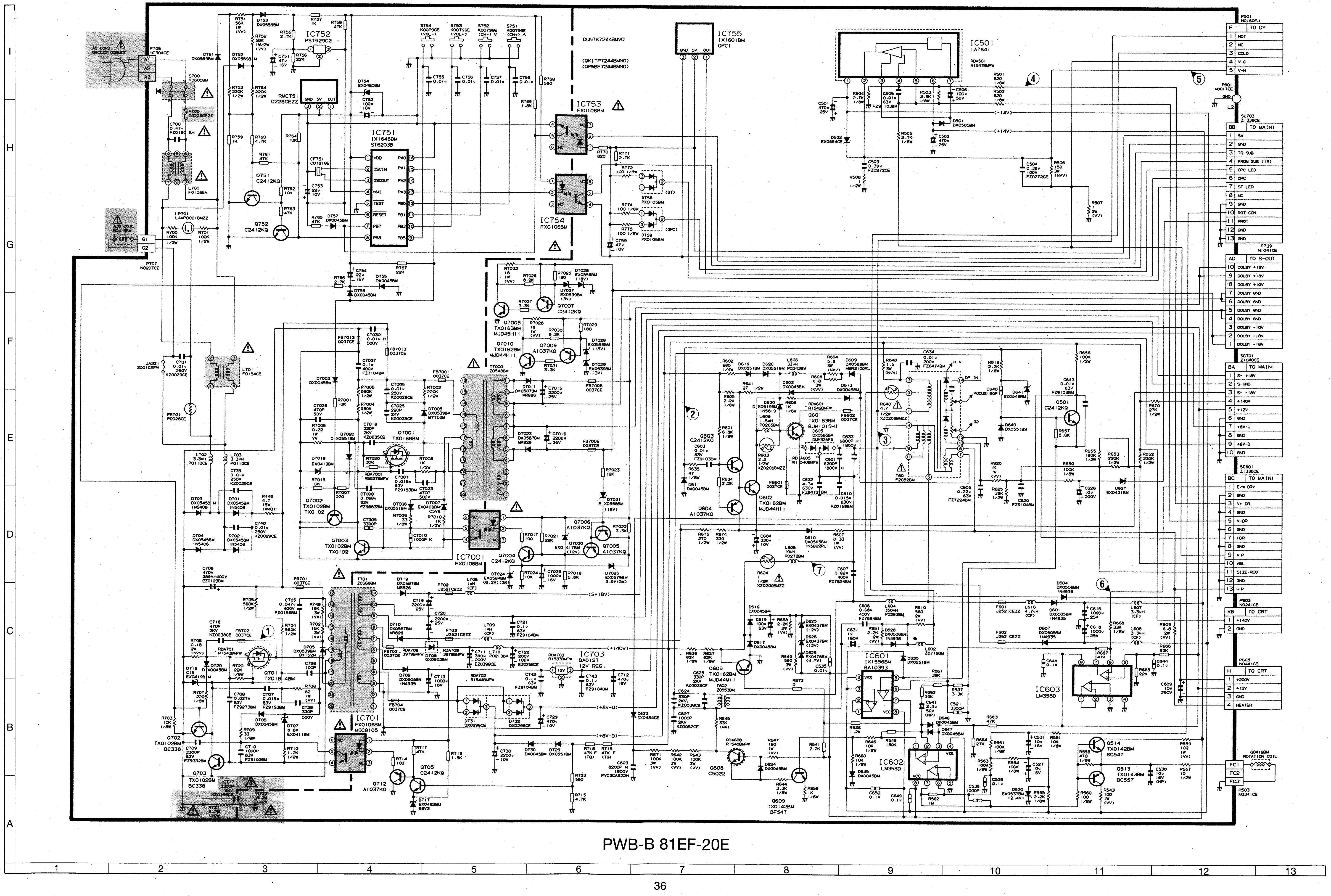
13

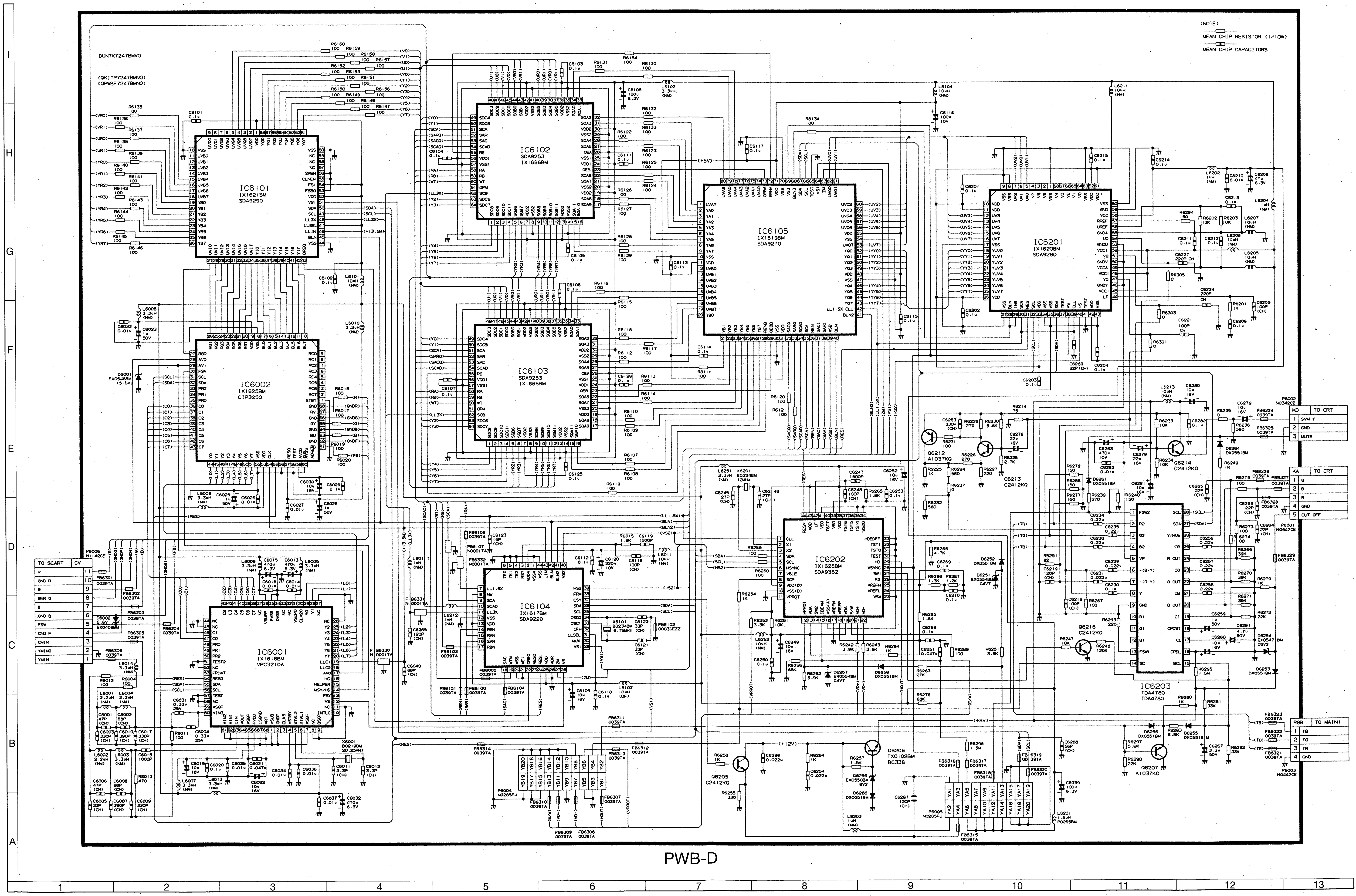
PWB-B 81EF-19E

SCHEMATIC DIAGRAM POWER UNIT 81EF-20E

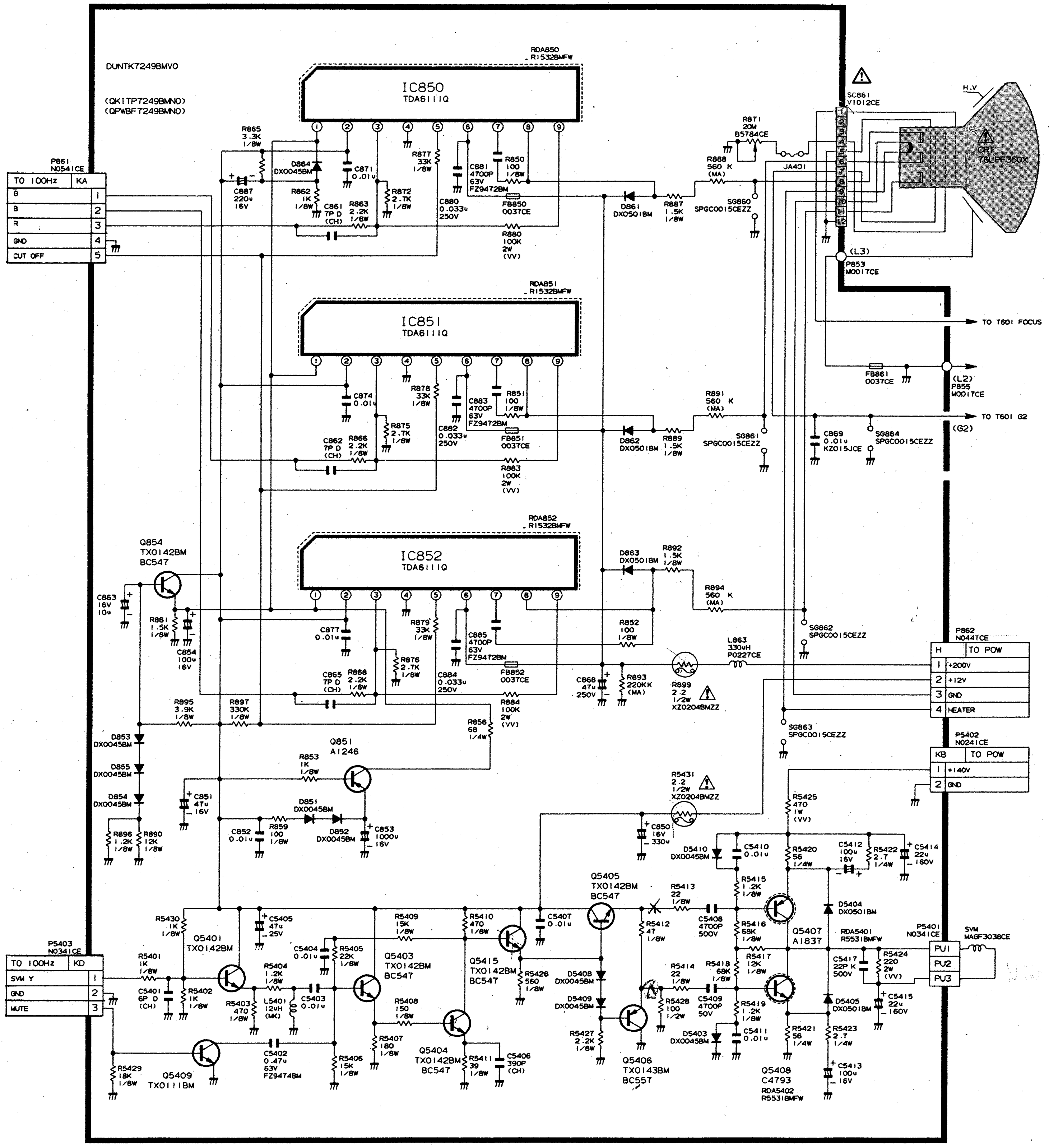

IC751
IX1646BM
ST6203B
IC752
PST529C2
RMC751
0228CEZZ
IC753
FX0106BM
IC754
FX0106BM
IC755
IX1601BM
OPC1
IC501
LA7841
IC7001
FX0106BM
IC701
FX0106BM
MOC8105
IC703
BA012T
12V REG.
IC601
IX1556BM
BA10393
IC602
LM358D
IC603
LM358D
DUNTKT244BMV0
(QKITP7244BMN0)
(QPWBF7244BMN0)
AC CORD
QACCZ2100BMZZ
P705
N0304CE
DEG COIL
P707
N0207CE
P501
N0160FJ
TO DY
HOT
NC
COLD
V-C
V-H
SC703
Z1338CE
BB
TO MAIN1
5V
GND
TO SUB
FROM SUB (IR)
OPC LED
OPC
ST LED
NC
GND
ROT-CON
PROT
GND
GND
P709
N1041CE
AD
TO S-OUT
DOLBY +18V
DOLBY +18V
DOLBY +10V
DOLBY GND
DOLBY GND
DOLBY GND
DOLBY GND
DOLBY -10V
DOLBY -18V
DOLBY -18V
SC701
Z1040CE
BA
TO MAIN1
S- +18V
S-GND
S- -18V
+140V
+12V
GND
+8V-U
GND
+8V-D
GND
SC601
Z1338CE
BC
TO MAIN1
E/W DRV
GND
V+ DR
GND
V-DR
GND
HDR
GND
V P
ABL
SIZE-REG
GND
H P
P603
N0241CE
KB
TO CRT
+140V
GND
P605
N0441CE
H
TO CRT
+200V
+12V
GND
HEATER
FC1
FC2
FC3
P503
N0341CE
ROTATION COIL
T601
T701
T7000
(S+18V)
(+140V)
(+8V-U)
(+8V-D)
(-14V)
(+14V)
1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
1
2
3
4
5
6
7
8
9
10
11
12
13

PWB-B 81EF-20E

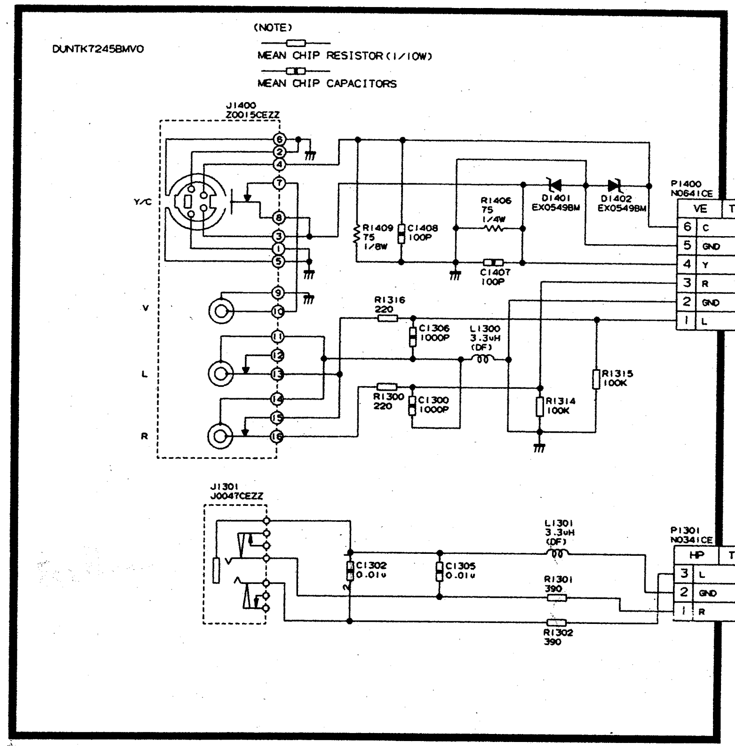
SCHEMATIC DIAGRAM 100 Hz UNIT


DUNTK7247BMV0
(QKITP7247BMN0)
(QPWBF7247BMN0)
(NOTE)
MEAN CHIP RESISTOR (1/10W)
MEAN CHIP CAPACITORS
IC6101
IX1621BM
SDA9290
IC6102
SDA9253
IX1666BM
IC6103
SDA9253
IX1666BM
IC6105
IX1619BM
SDA9270
IC6201
IX1620BM
SDA9280
IC6002
IX1625BM
CIP3250
IC6104
IX1617BM
SDA9220
IC6202
IX1626BM
SDA9362
IC6001
IX1616BM
VPC3210A
IC6203
TDA4780
TDA4780
TO SCART
CV
R
GND R
G
GNR G
B
GND B
FSW
GND F
CVIN
YMING
YMIN
KD
TO CRT
SVM Y
GND
MUTE
KA
TO CRT
G
B
R
GND
CUT OFF
RGB
TO MAIN1
TB
TG
TR
GND
P6002
N0342CE
P6001
N0542CE
P6003
N0442CE
P6006
N1142CE
P6004
N0285FJ
P6005
N0285FJ
X6001
B0219BM
20.25MHz
X6101
B0234BM
6.75MHz
X6201
B0224BM
12MHz
Q6205
C2412KQ
Q6206
TX0102BM
BC338
Q6207
A1037KQ
Q6212
A1037KQ
Q6213
C2412KQ
Q6214
C2412KQ
Q6216
C2412KQ
(+5V)
(+8V)
(+12V)
(+13.5V)
PWB-D
1
2
3
4
5
6
7
8
9
10
11
12
13
A
B
C
D
E
F
G
H
I

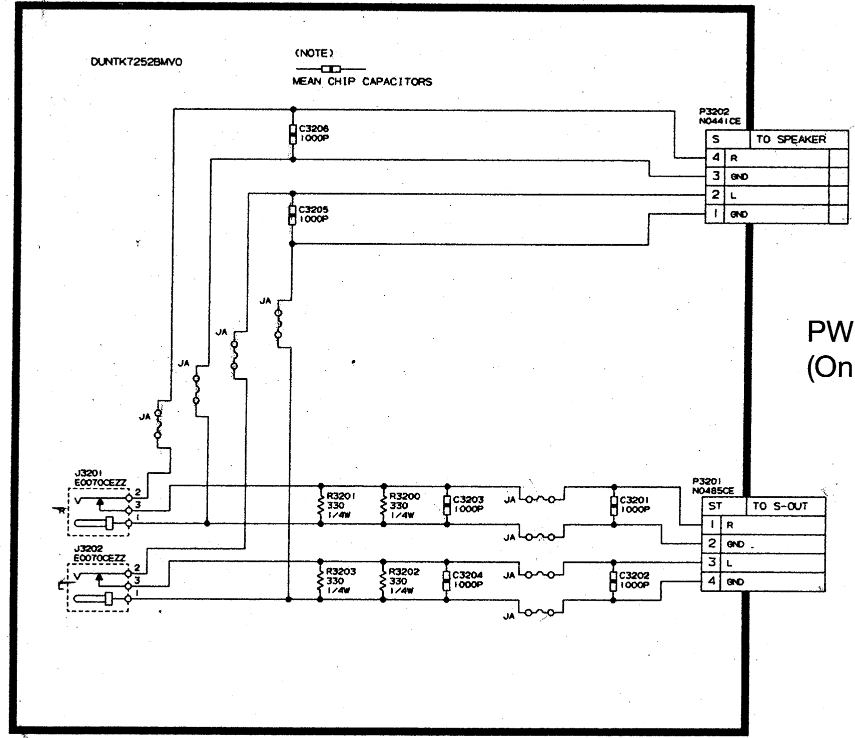
SCHEMATIC DIAGRAMS


DUNTK7249BMV0
(QKITPT7249BMN0)
(QPWBFT7249BMN0)
IC850 TDA6111Q
IC851 TDA6111Q
IC852 TDA6111Q
P861 N0541CE
TO 100Hz KA
G
B
R
GND
CUT OFF
SC861 V1012CE
CRT 76LPF350X
H.V
TO T601 FOCUS
TO T601 G2
P862 N0441CE
H TO POW
+200V
+12V
GND
HEATER
P5402 N0241CE
KB TO POW
+140V
GND
P5403 N0341CE
TO 100Hz KD
SVM Y
GND
MUTE
P5401 N0341CE
PU1
PU2
PU3
SVM MAGF3038CE
Q854 TX0142BM BC547
Q851 A1246
Q5401 TX0142BM
Q5403 TX0142BM BC547
Q5404 TX0142BM BC547
Q5405 TX0142BM BC547
Q5406 TX0143BM BC557
Q5407 A1837
Q5408 C4793
Q5409 TX0111BM
Q5415 TX0142BM BC547

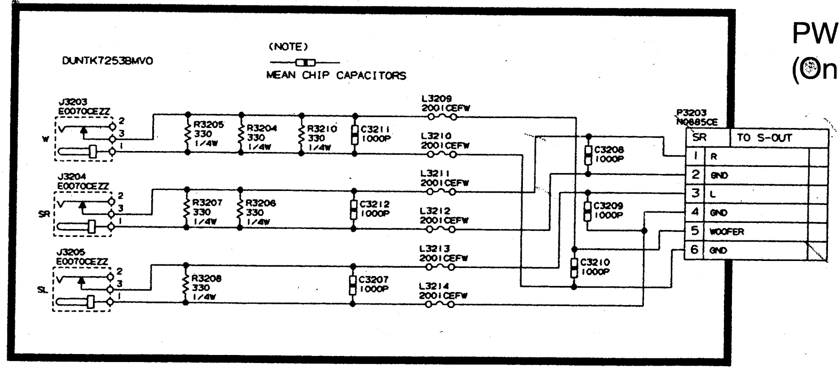
PWB-C


DUNTK7245BMV0
(NOTE)
MEAN CHIP RESISTOR (1/10W)
MEAN CHIP CAPACITORS
J1400 Z0015CEZZ
Y/C
V
L
R
P1400 N0641CE
VE TO SCART
6 C
5 GND
4 Y
3 R
2 GND
1 L
J1301 J0047CEZZ
P1301 N0341CE
HP TO MAIN2
3 L
2 GND
1 R

PWB-F

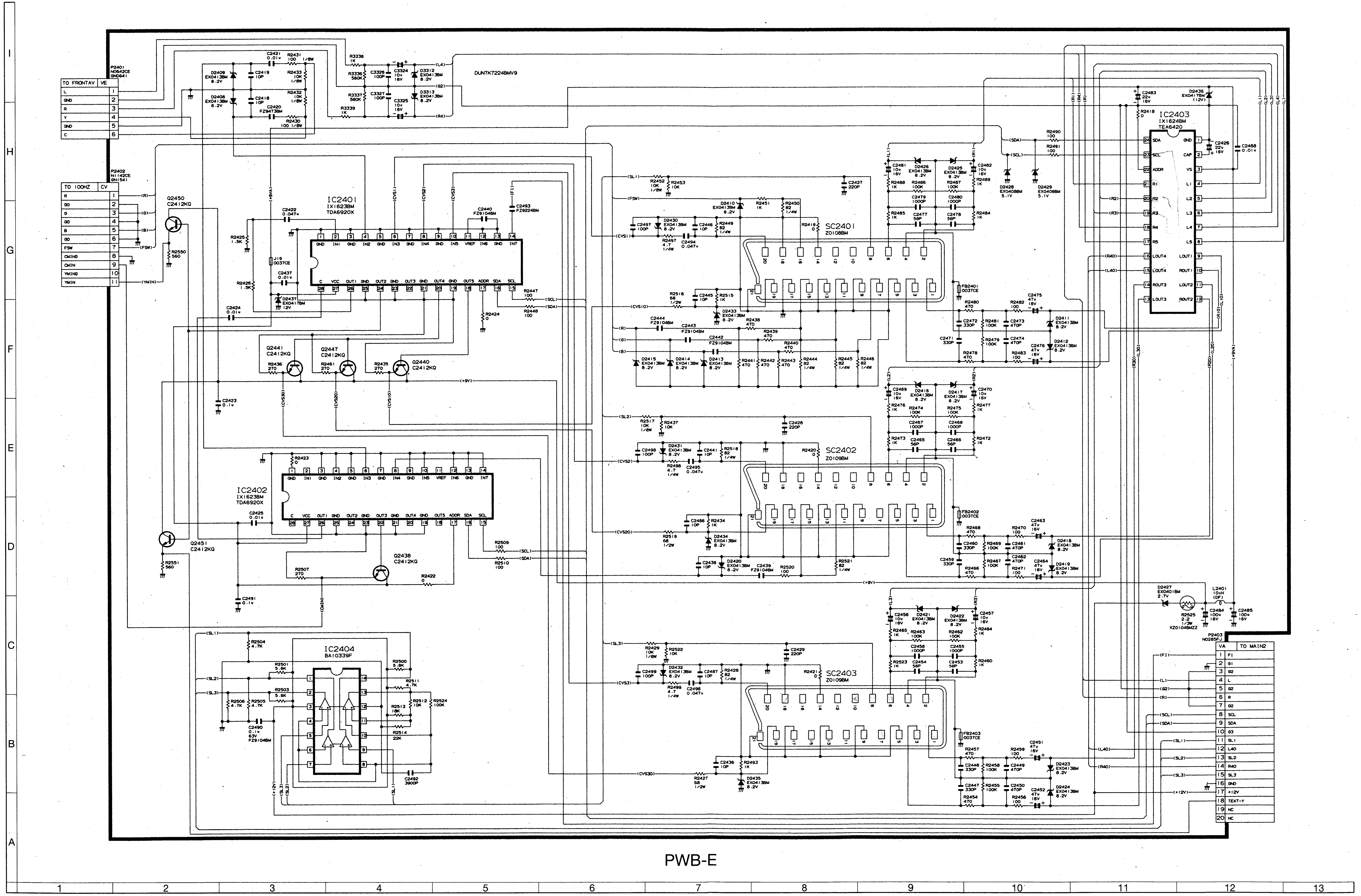

DUNTK7252BMV0
(NOTE)
MEAN CHIP CAPACITORS
P3202 N0441CE
S TO SPEAKER
4 R
3 GND
2 L
1 GND
J3201 E0070CEZZ
J3202 E0070CEZZ
P3201 N0485CE
ST TO S-OUT
1 R
2 GND
3 L
4 GND

PWB-I
(Only for 81EF-20E)


DUNTK7253BMV0
(NOTE)
MEAN CHIP CAPACITORS
J3203 E0070CEZZ
J3204 E0070CEZZ
J3205 E0070CEZZ
P3203 N0685CE
SR TO S-OUT
1 R
2 GND
3 L
4 GND
5 WOOFER
6 GND

PWB-J
(Only for 81EF-20E)

SCHEMATIC DIAGRAM A/V UNIT



IC2401
IX1623BM
TDA6920X
IC2402
IX1623BM
TDA6920X
IC2403
IX1624BM
TEA6420
IC2404
BA10339F
SC2401
Z0108BM
SC2402
Z0109BM
SC2403
Z0109BM
P2401
N0642CE
GN0641
TO FRONTAV
VE
P2402
N1142CE
GN1541
TO 100HZ
CV
P2403
N0285FJ
VA
TO MAIN2
Q2450
C2412KQ
Q2451
C2412KQ
Q2441
C2412KQ
Q2447
C2412KQ
Q2440
C2412KQ
Q2438
C2412KQ
DUNTK7224BMV9
L2401
10uH
(DF)
D2427
EX0401BM
2.7V
R2525
2.2
1/3W
XZ0104BMZZ
FB2401
0037CE
FB2402
0037CE
FB2403
0037CE
J19
0037CE
(+9V)
(+12V)
(SCL)
(SDA)
(CVS1)
(CVS2)
(CVS3)
(CVS10)
(CVS20)
(CVS30)
(SL1)
(SL2)
(SL3)
(FSW)
(R)
(G)
(B)
(L4)
(G2)
(R4)
(L40)
(R40)
(YMIN)
(FI)
1
2
3
4
5
6
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8
9
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A
B
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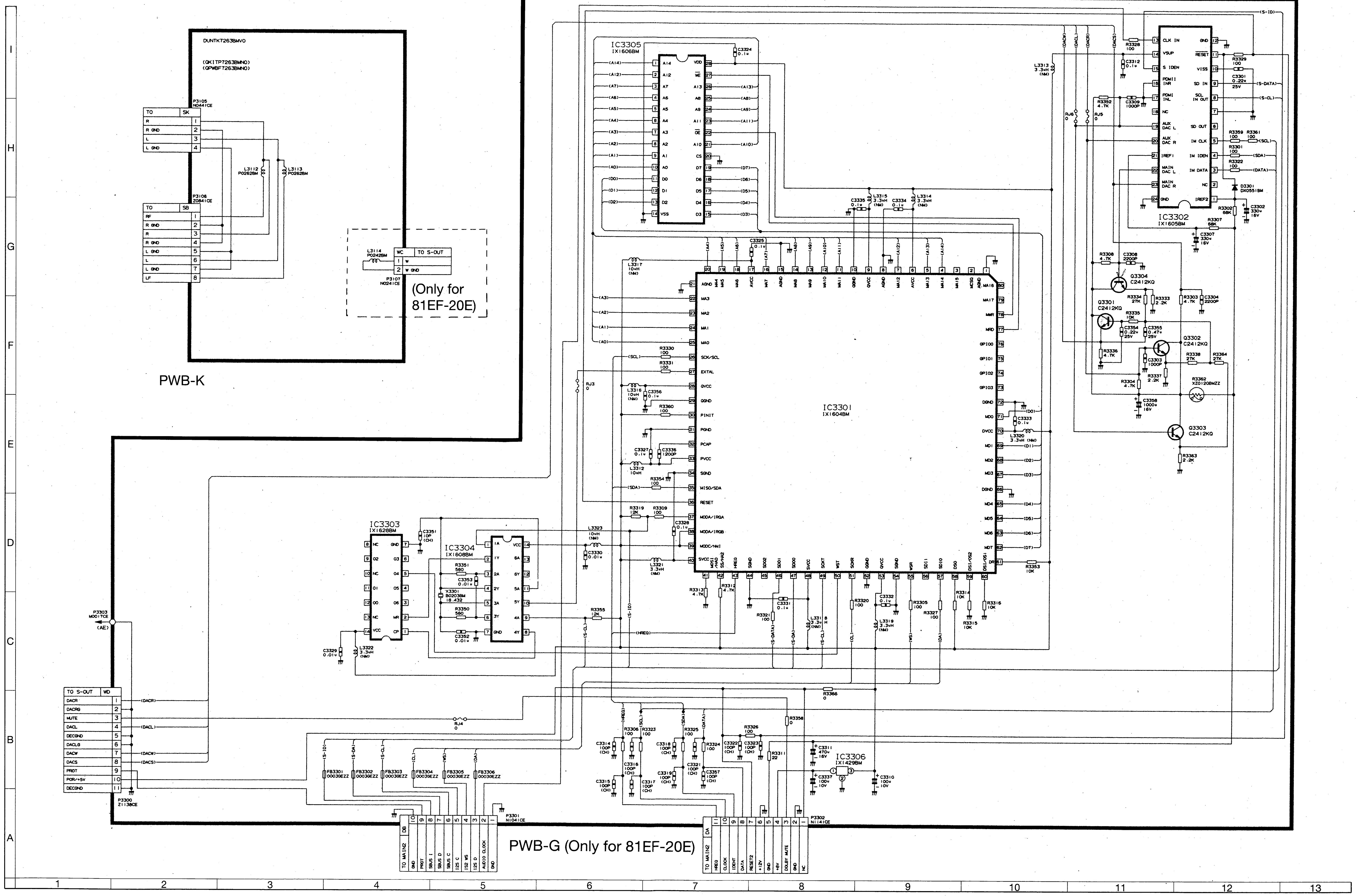
D
E
F
G
H
I

PWB-E


DUNTK7263BMV0
(QKITP7263BMN0)
(QPWBF7263BMN0)
P3105
P3108
L3112
L3113
L3114
P3107
(Only for
81EF-20E)
PWB-K
IC3305
IX1606BM
IC3301
IX1604BM
IC3302
IX1605BM
IC3303
IX1628BM
IC3304
IX1608BM
IC3306
IX1429BM
Q3301
Q3302
Q3303
Q3304
C2412KQ
X3301
P3300
P3301
P3302
P3303
TO S-OUT
DACR
DACRG
MUTE
DACL
DECGND
DACLG
DACW
DACS
PROT
POR/+5V
DECGND
TO MAIN2
PWB-G (Only for 81EF-20E)
A
B
C
D
E
F
G
H
I
1
2
3
4
5
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7
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9
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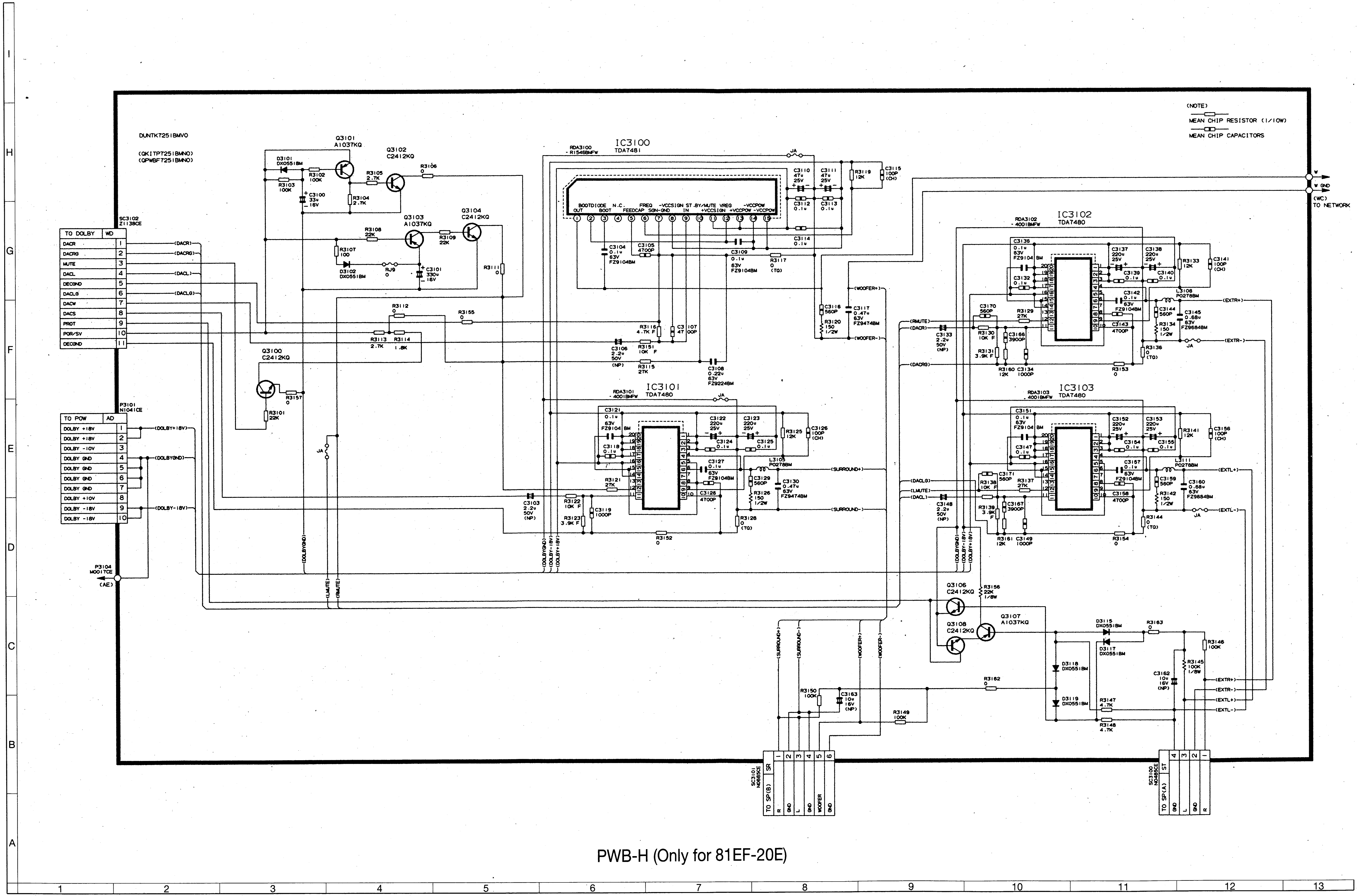
11
12
13

SCHEMATIC DIAGRAM AUDIO UNIT (81EF-20E)


(NOTE)
MEAN CHIP RESISTOR (1/10W)
MEAN CHIP CAPACITORS
DUNTK7251BMV0
(QKITPT7251BMN0)
(QPWBF7251BMN0)
SC3102 Z1138CE
TO DOLBY
WD
DACR
DACRG
MUTE
DACL
DECGND
DACLG
DACW
DACS
PROT
POR/SV
DECGND
P3101 N1041CE
TO POW
AD
DOLBY +18V
DOLBY +18V
DOLBY -10V
DOLBY GND
DOLBY GND
DOLBY GND
DOLBY GND
DOLBY +10V
DOLBY -18V
DOLBY -18V
P3104 M001TCE
(AE)
Q3101 A1037KQ
Q3102 C2412KQ
Q3103 A1037KQ
Q3104 C2412KQ
Q3100 C2412KQ
D3101 DX0551BM
D3102 DX0551BM
RJ9 0
C3100 33u 16V
C3101 330u 16V
IC3100 TDA7481
RDA3100 - R1546BMFW
BOOTDIODE OUT
N.C. BOOT
FEEDCAP
FREQ SGN-GND
-VCCSIGN IN
ST.BY/MUTE +VCCSIGN
VREG +VCCPOW
-VCCPOW -VCCPOW
IC3101 TDA7480
RDA3101 - 4001BMFW
IC3102 TDA7480
RDA3102 - 4001BMFW
IC3103 TDA7480
RDA3103 - 4001BMFW
L3105 P0278BM
L3108 P0278BM
L3111 P0278BM
JA
(DACR)
(DACRG)
(DACL)
(DACLG)
(DOLBY+18V)
(DOLBYGND)
(DOLBY-18V)
(WOOFER+)
(WOOFER-)
(RMUTE)
(LMUTE)
(SURROUND+)
(SURROUND-)
(EXTR+)
(EXTR-)
(EXTL+)
(EXTL-)
W
W GND
(WC) TO NETWORK
Q3106 C2412KQ
Q3107 A1037KQ
Q3108 C2412KQ
D3115 DX0551BM
D3117 DX0551BM
D3118 DX0551BM
D3119 DX0551BM
SC3101 N0685CE
SR
TO SP(B)
R
GND
L
GND
WOOFER
GND
SC3100 N0485CE
ST
TO SP(A)
GND
L
GND
R
I
H
G
F
E
D
C
B
A
1
2
3
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5
6
7
8
9
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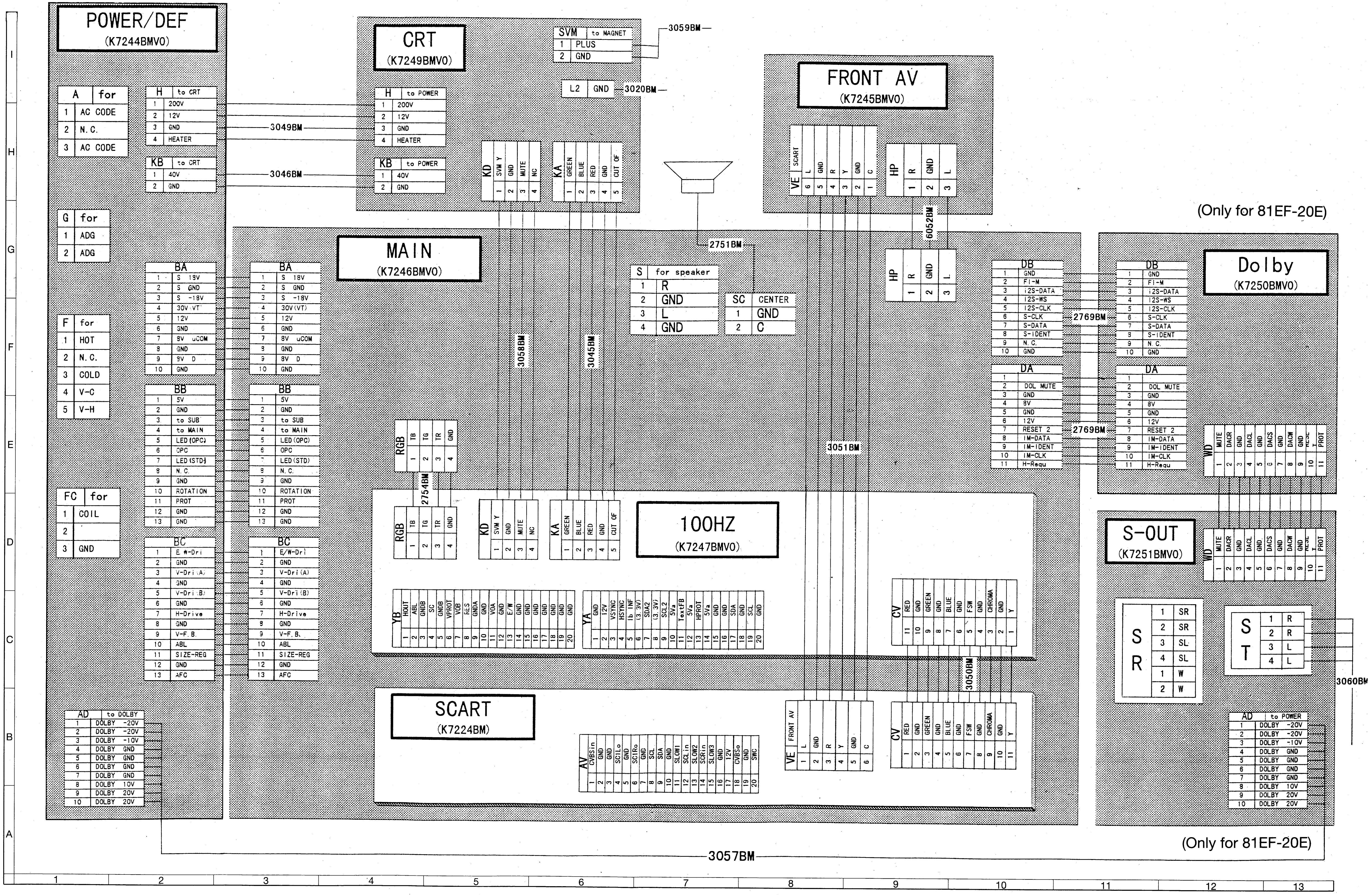
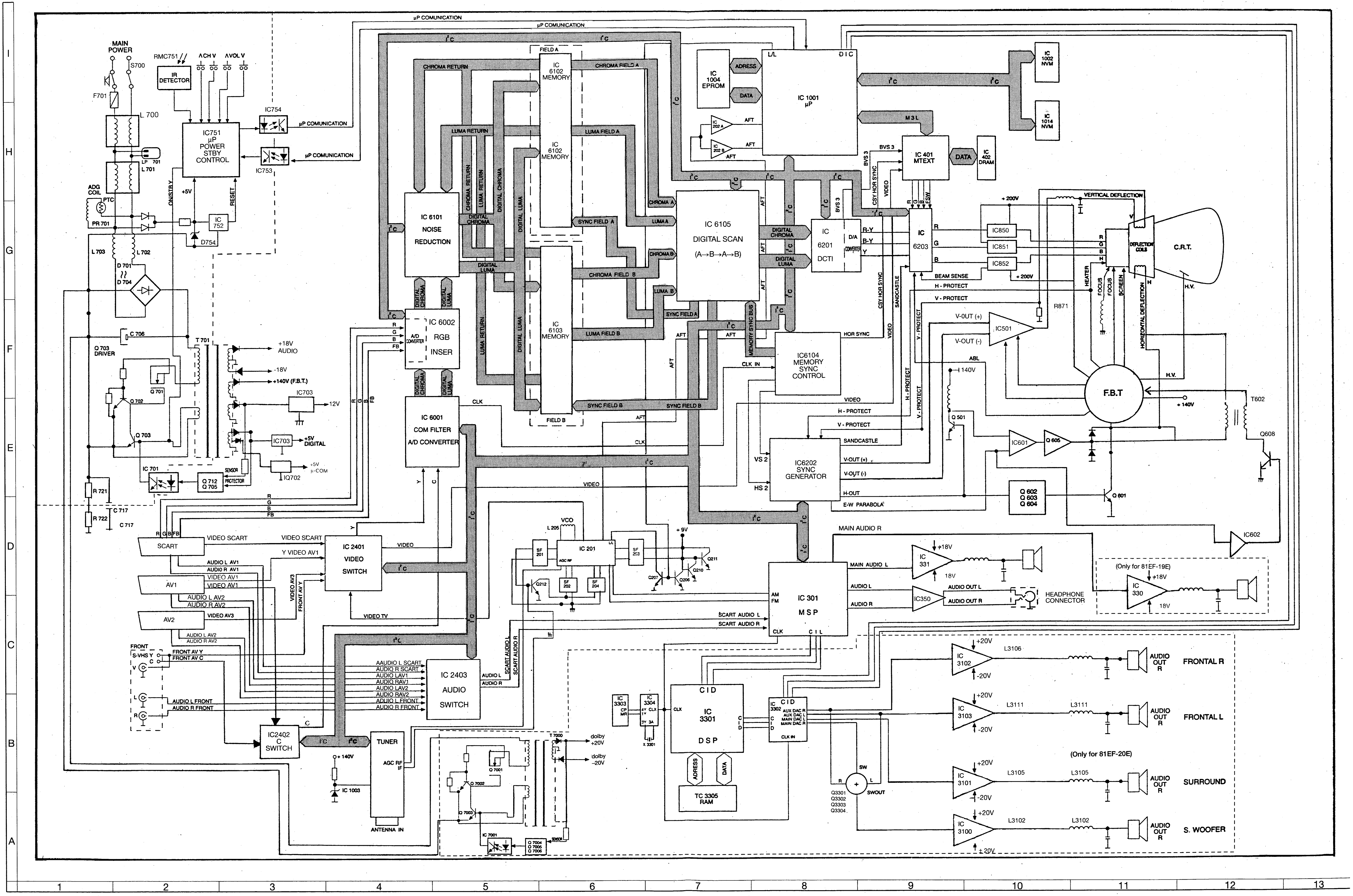
11
12
13

PWB-H (Only for 81EF-20E)

CONNECTION DIAGRAM


POWER/DEF
(K7244BMV0)
A for
1 AC CODE
2 N.C.
3 AC CODE
H to CRT
1 200V
2 12V
3 GND
4 HEATER
KB to CRT
1 40V
2 GND
G for
1 ADG
2 ADG
F for
1 HOT
2 N.C.
3 COLD
4 V-C
5 V-H
FC for
1 COIL
2
3 GND
BA
1 S 18V
2 S GND
3 S -18V
4 30V(VT)
5 12V
6 GND
7 8V uCOM
8 GND
9 8V D
10 GND
BB
1 5V
2 GND
3 to SUB
4 to MAIN
5 LED(OPC)
6 OPC
7 LED(STD)
8 N.C.
9 GND
10 ROTATION
11 PROT
12 GND
13 GND
BC
1 E/W-Dri
2 GND
3 V-Dri(A)
4 GND
5 V-Dri(B)
6 GND
7 H-Drive
8 GND
9 V-F.B.
10 ABL
11 SIZE-REG
12 GND
13 AFC
AD to DOLBY
1 DOLBY -20V
2 DOLBY -20V
3 DOLBY -10V
4 DOLBY GND
5 DOLBY GND
6 DOLBY GND
7 DOLBY GND
8 DOLBY 10V
9 DOLBY 20V
10 DOLBY 20V
CRT
(K7249BMV0)
H to POWER
1 200V
2 12V
3 GND
4 HEATER
KB to POWER
1 40V
2 GND
SVM to MAGNET
1 PLUS
2 GND
L2 GND
KD SVM Y GND MUTE NC
KA GREEN BLUE RED GND CUT OF
3059BM
3020BM
3049BM
3046BM
FRONT AV
(K7245BMV0)
VE SCART L GND R Y GND C
HP R GND L
6052BM
2751BM
MAIN
(K7246BMV0)
S for speaker
1 R
2 GND
3 L
4 GND
SC CENTER
1 GND
2 C
RGB TB TG TR GND
2754BM
3058BM
3045BM
3051BM
DB
1 GND
2 FI-M
3 I2S-DATA
4 I2S-WS
5 I2S-CLK
6 S-CLK
7 S-DATA
8 S-IDENT
9 N.C.
10 GND
DA
1
2 DOL MUTE
3 GND
4 8V
5 GND
6 12V
7 RESET 2
8 IM-DATA
9 IM-IDENT
10 IM-CLK
11 H-Requ
2769BM
2769BM
Dolby
(K7250BMV0)
WD MUTE DACR GND DACL GND DACS GND DACW GND PROT
(Only for 81EF-20E)
100HZ
(K7247BMV0)
YB HOUT ABL GNDB SC GNDB VPROT VOB RES GNDA GND VOA GND E/W GND GND GND GND GND GND GND
YA GND 12V VSYNC HSYNC Ib INF (3.3V) SDA2 (3.3V) SCL2 5Va TextFB 5Va HPROT 5Va GND GND SDA GND SCL GND
CV RED GND GREEN GND BLUE GND FSW GND CHROMA GND Y
3050BM
SCART
(K7224BM)
AV CVBSin GND GND SCILo GND SCIRo GND SCL SDA GND SLOW1 SCLin SLOW2 SCRin SLOW3 GND 12V CVBSo GND SWC
VE FRONT AV L GND R Y GND C
S-OUT
(K7251BMV0)
SR
1 SR
2 SR
3 SL
4 SL
1 W
2 W
ST
1 R
2 R
3 L
4 L
3060BM
AD to POWER
1 DOLBY -20V
2 DOLBY -20V
3 DOLBY -10V
4 DOLBY GND
5 DOLBY GND
6 DOLBY GND
7 DOLBY GND
8 DOLBY 10V
9 DOLBY 20V
10 DOLBY 20V
(Only for 81EF-20E)
3057BM
I H G F E D C B A
1 2 3 4 5 6 7 8 9 10 11 12 13

BLOCK DIAGRAM


µP COMUNICATION
MAIN POWER
S700
RMC751
∧CH V
∧VOL V
IR DETECTOR
F701
L 700
IC754
IC751 µP POWER STBY CONTROL
IC753
LP 701
L 701
ADG COIL
PTC
PR 701
IC 752
D754
ON/STBY
+5V
RESET
L 703
L 702
D 701
D 704
C 706
Q 703 DRIVER
T 701
Q 701
Q 702
Q 703
+18V AUDIO
-18V
+140V (F.B.T.)
IC703
12V
+5V DIGITAL
+5V µ-COM
IQ702
IC 701
SENSOR PROTECTOR
Q 712 Q 705
R 721
R 722
C 717
SCART
VIDEO SCART
AUDIO L AV1
AUDIO R AV1
VIDEO AV1
AV1
AUDIO L AV2
AUDIO R AV2
VIDEO AV3
AV2
FRONT
S-VHS
FRONT AV Y
FRONT AV C
AUDIO L FRONT
AUDIO R FRONT
Y VIDEO AV1
IC 2401 VIDEO SWITCH
VIDEO AV3
FRONT AV Y
VIDEO TV
IC 2403 AUDIO SWITCH
AAUDIO L SCART
AUDIO R SCART
AUDIO LAV1
AUDIO RAV1
AUDIO LAV2
AUDIO RAV2
AUDIO L FRONT
AUDIO R FRONT
AUDIO L
AUDIO R
SCART AUDIO L
SCART AUDIO R
IC2402 C SWITCH
TUNER
AGC RF IF
+140V
IC 1003
ANTENNA IN
T 7000
dolby +20V
dolby -20V
Q 7001
Q 7002
Q 7003
IC 7001
Q 7004 Q 7005 Q 7006
CHROMA RETURN
LUMA RETURN
DIGITAL CHROMA
DIGITAL LUMA
IC 6101 NOISE REDUCTION
IC 6002 RGB INSER
A/D CONVERTER
IC 6001 COM FILTER A/D CONVERTER
CLK
FIELD A
FIELD B
IC 6102 MEMORY
IC 6103 MEMORY
CHROMA FIELD A
LUMA FIELD A
SYNC FIELD A
CHROMA FIELD B
LUMA FIELD B
SYNC FIELD B
IC 6105 DIGITAL SCAN (A→B→A→B)
CHROMA A
LUMA A
CHROMA B
LUMA B
MEMORY SYNC BUS
IC6104 MEMORY SYNC CONTROL
HOR SYNC
CLK IN
AFT
IC 1004 EPROM
ADRESS
DATA
IC 1001 µP
L/L
D I C
IC 1002 NVM
IC 1014 NVM
IC 202 A
IC 202 B
M 3 L
BVS 3
IC 401 MTEXT
IC 402 DRAM
CSY HOR SYNC
IC 6201 DCTI
D/A CONVERTER
R-Y
B-Y
Y
IC 6203
FSW
+200V
IC850
IC851
IC852
BEAM SENSE
H - PROTECT
V - PROTECT
VERTICAL DEFLECTION
DEFLECTION COILS
C.R.T.
HEATER
FOCUS
SCREEN
HORIZONTAL DEFLECTION
H.V.
R871
V-OUT (+)
V-OUT (-)
IC501
ABL
SANDCASTLE
VIDEO
F.B.T
+140V
T602
Q 501
IC601
Q 605
Q608
IC6202 SYNC GENERATOR
VS 2
HS 2
H-OUT
E-W PARABOLA
Q 602 Q 603 Q 604
Q 601
IC602
MAIN AUDIO R
MAIN AUDIO L
IC 331
IC350
AUDIO OUT L
AUDIO OUT R
HEADPHONE CONNECTOR
(Only for 81EF-19E)
IC 330
+18V
18V
VCO
L 205
IC 201
SF 201
SF 202
SF 203
SF 204
+9V
Q211
Q210
Q206
Q207
Q212
AGC RF
IF
AM FM
IC 301 M S P
SCART AUDIO L
SCART AUDIO R
CLK
C I L
IC 3303
IC 3304
X 3301
IC 3301 D S P
C I D
TC 3305 RAM
ADRESS
DATA
IC 3302
AUX DAC R
AUX DAC L
MAIN DAC L
MAIN DAC R
CLK IN
SW
SWOUT
Q3301 Q3302 Q3303 Q3304
IC 3102
L3106
AUDIO OUT R
FRONTAL R
IC 3103
L3111
FRONTAL L
(Only for 81EF-20E)
IC 3101
L3105
SURROUND
IC 3100
L3102
S. WOOFER
+20V
-20V
I²C
1
2
3
4
5
6
7
8
9
10
11
12
13
I
H
G
F
E
D
C
B
A

PARTS LIST
REPLACEMENT PARTS

Replacement parts which have special safety characteristics are identified in this manual. Electrical components having such features are identified by ⚠ in the Replacement Parts list.
The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended is not permitted. Replacement parts not shown in this service manual may create shock fire, or other hazards.

HOW TO ORDER REPLACEMENT PARTS

To have your order completed promptly and correctly please supply the following information.

1. MODEL NUMBER	2. REF. NO.
3. PART NO.	4. DESCRIPTION
5. CODE	6. QUANTITY

CODE EX: EUROPEAN MARKET
CODE SP: SPANISH MARKET
★ MARK: SPARE PARTS DELIVERY SECTION

PICTURE TUBE

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
⚠	VB76LPF3501*N	S	Flat Picture Tube 32" 16:9	**	CQ
⚠	RCILG0418BMZZ	S	Degaussing Coil 32" 16:9	AZ	AS
⚠	RCILG0419BMZZ	S	Rotation Coil 16:9	AR	AK

PRINTED WIRING BOARDS

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
PWB-A	DUNTK7246CJV1	S	Mother Unit 81EF19E	--	--
PWB-A	DUNTK7246CJV0	S	Mother Unit 81EF20E	--	--
PWB-B	DUNTK7244CJV1	S	Power Unit 81EF19E	--	--
PWB-B	DUNTK7244CJV0	S	Power Unit 81EF20E	--	--
PWB-C	DUNTK7249CJV1	S	Socket Unit 81EF19E	--	--
PWB-C	DUNTK7249CJV0	S	Socket Unit 81EF20E	--	--
PWB-D	DUNTK7247CJV1	S	100 Hz Unit 81EF19E	--	--
PWB-D	DUNTK7247CJV0	S	100 Hz Unit 81EF20E	--	--
PWB-E	DUNTK7224CJW0	S	A / V Unit 81EF19E	--	--
PWB-E	DUNTK7224CJV9	S	A / V Unit 81EF20E	--	--
PWB-F	DUNTK7245BMV1	S	Front A / V Unit 81EF19E	--	--
PWB-F	DUNTK7245BMV0	S	Front A / V Unit 81EF20E	--	--
PWB-G	DUNTK7250CJV0	S	Dolby Unit 81EF20E	--	--
PWB-H	DUNTK7251CJV0	S	Audio Unit 81EF20E	--	--
PWB-I	DUNTK7252BMV0	S	Speaker Unit (X2) 81EF20E	--	--
PWB-J	DUNTK7253BMV0	S	Speaker Unit (X3) 81EF20E	--	--
PWB-K	DUNTK7263BMV1	S	Audio Coils 81EF19E	--	--
PWB-K	DUNTK7263BMV0	S	Audio Coils 81EF20E	--	--
	DSETU7246CJV4	S	Complete Chassis 81EF19E	--	--
	DSETU7246CJV3	S	Complete Chassis 81EF20E	--	--

PWB-A MAIN UNIT

TUNER

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
TU 0201	RTUNH0135BMZZ	S	Tuner	BD	AX

INTEGRATED CIRCUITS

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
IC 0201	RH-IX1612BMZZ	S	TDA6930X	AS	AP
IC 0202	RH-IX1556BMZZ	S	BA10393 S0P8	AD	AC
IC 0301	RH-IX1504BMZZ	S	MS 3410B-PP-F7	BG	AZ
IC 0330	VHITDA7480/-1	S	TDA7480	AK	AF
IC 0331	VHITDA7480/-1	S	TDA7480	AK	AF
IC 0350	VHIM5218L//-1	S	M5218L	AF	AB
IC 0401	RH-IX1673BMZZ	S	SDA5273-2	BE	AT
IC 0402	RH-IX1656BMZZ	S	DRAM	AY	AR
IC 1001	RH-IX1629BMZZ	S	SAB-C161K-L16Q	AY	AV
IC 1002	RH-IX1603BMZZ	S	NVM	AV	AS
IC 1003	RH-IX0037CEZZ	S	UPC574J 33V	AD	AF
IC 1004	CH-IX1642CJE2	S	PROM 81EF19E	AX	AL
IC 1004.	CH-IX1642CJE1	S	PROM 81EF20E	AX	AL
IC 1011	VHIPST529C2-1	S	PST529C	AD	AD
IC 1014	RH-IX1603BMZZ	S	NVM	AV	AS
IC 1702	RH-IX1641BMZZ	S	L4940V5	AH	AE

TRANSISTORS

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
Q 0201	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 0202	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 0207	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 0208	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 0209	RH-TX0102BMZZ	S	BC338	AB	AA
Q 0210	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 0211	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 0212	RH-TX0116BMZZ	S	TRANSISTOR	AC	AA
Q 0215	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 0315	VS2SA1037KQ-1	S	BC807	AA	AA
Q 0316	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 0317	VS2SA1037KQ-1	S	BC807	AA	AA
Q 0318	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 0370	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 0372	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 0373	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 0374	VS2SA1037KQ-1	S	BC807	AA	AA
Q 0401	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 1001	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 1012	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 1013	VS2SC2412KQ-1	S	2SC2412	AA	AA

DIODES

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
D 0202	RH-EX0551BMZZ	S	Zener TZMC9V1	AA	AA
D 0203	RH-DX0551BMZZ	S	LL4148	AA	AA
D 0206	RH-DX0560BMZZ	S	BA482	AB	AA
D 0207	RH-DX0560BMZZ	S	BA482	AB	AA
D 0317	RH-DX0551BMZZ	S	LL4148	AA	AA
D 0318	RH-DX0551BMZZ	S	LL4148	AA	AA
D 0356	RH-EX0402BMZZ	S	Zener BZX79C3V0	AB	AA
D 0357	RH-EX0402BMZZ	S	Zener BZX79C3V0	AB	AA
D 0372	RH-DX0551BMZZ	S	LL4148	AA	AA
D 0405	RH-EX0550BMZZ	S	Zener TZMC8V2	AA	AA
D 0412	RH-EX0545BMZZ	S	Zener TZMC5V1	AA	AA
D 0413	RH-EX0548BMZZ	S	Zener TZMC6V8	AA	AA
D 0418	RH-DX0551BMZZ	S	LL4148	AA	AA
D 0419	RH-DX0551BMZZ	S	LL4148	AA	AA
D 0420	RH-DX0551BMZZ	S	LL4148	AA	AA
D 0421	RH-EX0537BMZZ	S	Zener TZMC2V4	AB	AA
D 0422	RH-EX0537BMZZ	S	Zener TZMC2V4	AB	AA
D 0423	RH-EX0537BMZZ	S	Zener TZMC2V4	AB	AA
D 0424	RH-EX0546BMZZ	S	Zener TZMC5V6	AA	AA
D 0451	RH-EX0539BMZZ	S	Zener TZMC3V0	AA	AA
D 0600	RH-DX0013GEZZ	S	Diode	AB	AA
D 1001	RH-EX0546BMZZ	S	Zener TZMC5V6	AA	AA
D 1002	RH-EX0546BMZZ	S	Zener TZMC5V6	AA	AA
D 1005	RH-EX0546BMZZ	S	Zener TZMC5V6	AA	AA
D 1006	RH-EX0546BMZZ	S	Zener TZMC5V6	AA	AA
D 1007	RH-EX0546BMZZ	S	Zener TZMC5V6	AA	AA
D 1008	RH-EX0546BMZZ	S	Zener TZMC5V6	AA	AA
D 1009	RH-EX0546BMZZ	S	Zener TZMC5V6	AA	AA
D 1010	RH-DX0045BMZZ	S	1N4148	AA	AA

PACKADGED CIRCUITS

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
X 0301	RCRSB0203BMZZ	S	Crystal 18.432 MHz	AG	AD
X 0451	RCRSB0214BMZZ	S	Crystal 20.48 MHz	AH	AD
X 1001	RCRSB0235BMZZ	S	Crystal 16 MHz	AF	AE

COILS

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
L 0202	VP-DF100K0000	S	10µH	AB	AB
L 0203	VP-CF470K0000	S	47µH	AA	AA
L 0205	RCILD0237BMZZ	S	Delay	AF	AC
L 0206	VP-DF1R0M0000	S	1µH	AB	AA
L 0301	VP-DF100K0000	S	10µH	AB	AB
L 0330	VP-CF1R0M0000	S	1µH	AB	AA
L 0331	VP-CF1R0M0000	S	1µH	AB	AA
L 0332	VP-CF1R0M0000	S	1µH	AB	AA
L 0333	VP-CF1R0M0000	S	1µH	AB	AA
L 0334	RCILP0236BMZZ	S	100µH	AQ	AN
L 0335	RCILP0236BMZZ	S	100µH	AQ	AN
L 0336	RCILP0236BMZZ	S	100µH	AQ	AN
L 0405	VP-DF100K0000	S	10µH	AB	AB
L 0452	VP-DF3R3K0000	S	3.3µH	AB	AB

CERAMIC FILTERS

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
CF 0301	RFILC0020CEZZ	S	Filter 5.5 MHz	AE	AE
SF 0201	RFILC0278BMZZ	S	SAW Filter K3953M	AM	AK
SF 0202	RFILC0280BMZZ	S	SAW Filter K9260M	AL	AF
SF 0203	RFILC0271BMZZ	S	Filter	AQ	AM
SF 0204	RFILC0284BMZZ	S	Filter	AL	AF

CAPACITORS

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
C 0201	VCEAGA1HW105M	S	1 50V Electrolytic	AA	AB
C 0202	VCEAGA1HW225M	S	2.2 50V Electrolytic	AB	AA
C 0204	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 0206	VCEAGA1CW476M	S	47 16V Electrolytic	AB	AB
C 0207	RC-FZ9105BMNJ	J	1 63V Mylar	AD	AB
C 0208	VCCCTV1HH470J	S	47p 50V Ceramic	AA	AA
C 0210	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0211	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0212	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0213	VCEAGA1CW476M	S	47 16V Electrolytic	AB	AB
C 0214	VCEAGA0JW477M	S	470 6.3V Electrolytic	AB	AA
C 0215	VCCCTV1HH270J	S	27p 50V Ceramic	AA	AA
C 0216	VCCCTV1HH270J	S	27p 50V Ceramic	AA	AA
C 0217	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0218	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0219	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 0220	VCEAGA1HW474M	S	0.47 50V Electrolytic	AA	AA
C 0221	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0222	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 0229	VCKYTV1HB472K	S	4700p 50V Ceramic	AA	AA
C 0230	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0232	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0234	VCEAGA1HW225M	S	2.2 50V Electrolytic	AB	AA
C 0238	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0239	VCCCTV1HH2R2C	S	2.2p 50V Ceramic	AA	AA
C 0240	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0301	VCCCTV1HH5R0C	S	5p 50V Ceramic	AA	AA
C 0302	VCCCTV1HH5R0C	S	5p 50V Ceramic	AA	AA
C 0304	VCCCTV1HH470J	S	47p 50V Ceramic	AA	AA
C 0306	VCCCTV1HH470J	S	47p 50V Ceramic	AA	AA
C 0307	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0308	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0309	VCEAGA1CW106M	S	10 16V Electrolytic	AA	AA
C 0311	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0312	VCEAGA1CW106M	S	10 16V Electrolytic	AA	AA
C 0313	VCEAGA1AW337M	S	330 10V Electrolytic	AB	AA
C 0314	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0315	VCEAGA1CW106M	S	10 16V Electrolytic	AA	AA
C 0316	VCCCTV1HH471J	S	470p 50V Ceramic	AA	AA
C 0317	VCEAGA1HW335M	S	3.3 50V Electrolytic	AA	AA
C 0319	VCCCTV1HH471J	S	470p 50V Ceramic	AA	AA
C 0320	VCCCTV1HH391J	S	390p 50V Ceramic	AA	AA
C 0321	VCCCTV1HH391J	S	390p 50V Ceramic	AA	AA
C 0322	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0323	VCEAGA0JW108M	S	1000 6.3V Electrolytic	AB	AA
C 0324	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 0325	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 0326	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 0327	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 0341	VCKYTV1HB472K	S	4700p 50V Ceramic	AA	AA
C 0342	VCKYTV1HB472K	S	4700p 50V Ceramic	AA	AA
C 0350	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0351	VCEAGA1HW225M	S	2.2 50V Electrolytic	AB	AA
C 0352	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 0354	VCEAGA1HW225M	S	2.2 50V Electrolytic	AB	AA
C 0355	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 0356	VCEAGA1HW225M	S	2.2 50V Electrolytic	AB	AA
C 0357	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0358	VCEAGA1EW227M	S	220 25V Electrolytic	AA	AA
C 0359	VCEAGA1EW227M	S	220 25V Electrolytic	AA	AA
C 0360	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0361	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0362	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 0363	RC-FZ9224BMNJ	J	0.22 63V Mylar	AC	AA
C 0364	RC-FZ9224BMNJ	J	0.22 63V Mylar	AC	AA
C 0365	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 0367	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 0368	VCKYTV1HB561K	S	560p 50V Ceramic	AA	AA
C 0369	RC-FZ9474BMNJ	J	0.47 63V Mylar	AD	AB
C 0370	VCE9GA1HW105M	S	1 50V Electrolytic (N/P)		AA
C 0372	VCKYTV1HB472K	S	4700p 50V Ceramic	AA	AA
C 0373	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0374	VCEAGA1EW227M	S	220 25V Electrolytic	AA	AA
C 0375	VCEAGA1EW227M	S	220 25V Electrolytic	AA	AA
C 0376	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0377	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0378	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 0379	VCEAGA1CW336M	S	33 16V Electrolytic	AA	AA
C 0380	VCEAGA1EW337M	S	330 25V Electrolytic	AA	AA
C 0382	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 0383	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 0384	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 0385	VCKYTV1HB561K	S	560p 50V Ceramic	AA	AA
C 0386	RC-FZ9684BMNJ	J	0.68 63V Mylar	AD	AB
C 0388	VCKYTV1HB472K	S	4700p 50V Ceramic	AA	AA
C 0389	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0401	RC-FZ9334BMNJ	J	0.33 63V Mylar	AC	AA
C 0404	RC-FZ9334BMNJ	J	0.33 63V Mylar	AC	AA
C 0405	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0417	VCEAGA1CW226M	S	22 16V Electrolytic	AA	AA
C 0418	VCEAGA1CW226M	S	22 16V Electrolytic	AA	AA
C 0451	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0452	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0453	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0454	VCKYTV1EF224Z	S	0.22 25V Ceramic	AA	AA
C 0456	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0459	VCCCTV1HH220J	S	22p 50V Ceramic	AA	AA
C 0460	VCCCTV1HH220J	S	22p 50V Ceramic	AA	AA
C 0461	VCCCTV1HH220J	S	22p 50V Ceramic	AA	AA
C 0471	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0732	VCEAGA0JW477M	S	470 6.3V Electrolytic	AB	AA
C 0733	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0734	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0735	VCEAGA1CW107M	S	100 16V Electrolytic	AB	AA
C 1001	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 1002	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 1003	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 1005	VCEAGA0JW108M	S	1000 6.3V Electrolytic	AB	AA
C 1006	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 1007	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 1008	VCCCTV1HH220J	S	22p 50V Ceramic	AA	AA
C 1009	VCCCTV1HH220J	S	22p 50V Ceramic	AA	AA
C 1010	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 1011	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 1012	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 1013	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 1014	VCCCTV1HH471J	S	470p 50V Ceramic	AA	AA
C 1015	VCCCTV1HH820J	S	82p 50V Ceramic	AA	AA
C 1016	VCCCTV1HH820J	S	82p 50V Ceramic	AA	AA
C 1017	VCCCTV1HH221J	S	220p 50V Ceramic	AA	AA
C 1018	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
C 1019	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 1020	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 1705	VCEAGA1CW107M	S	100 16V Electrolytic	AB	AA
C 1706	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 1707	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 1708	VCEAGA0JW477M	S	470 6.3V Electrolytic	AB	AA
C 1709	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 1710	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
RESISTORS					
R 0156	VRS-TV1JD332J	S	3.3K 1/10W Metal Oxide	AA	AA
R 0201	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 0202	VRS-TV1JD181J	S	180 1/10W Metal Oxide	AA	AA
R 0203	VRS-TV1JD332J	S	3.3K 1/10W Metal Oxide	AA	AA
R 0204	RR-XZ0112BMZZ	S	10 1/3W Fuse Resistor	AB	AA
R 0205	VRS-TV1JD181J	S	180 1/10W Metal Oxide	AA	AA
R 0206	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 0207	VRD-RA2BE121J	S	120 1/8W Carbon	AA	AA
R 0208	VRD-RA2BE121J	S	120 1/8W Carbon	AA	AA
R 0209	VRS-TV1JD183J	S	18K 1/10W Metal Oxide	AA	AA
R 0210	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 0212	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 0213	VRS-TV1JD153J	S	15K 1/10W Metal Oxide	AA	AA
R 0214	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 0215	VRS-TV1JD271J	S	270 1/10W Metal Oxide	AA	AA
R 0218	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 0219	VRD-RA2BE102J	S	1K 1/8W Carbon	AA	AA
R 0220	VRS-TV1JD222J	S	2.2K 1/10W Metal Oxide	AA	AA
R 0221	VRS-TV1JD222J	S	2.2K 1/10W Metal Oxide	AA	AA
R 0222	VRD-RA2BE473J	S	47K 1/8W Carbon	AA	AA
R 0223	VRS-TV1JD473J	S	47K 1/10W Metal Oxide	AA	AA
R 0224	RVR-M4624GEZZ	S	4.7K (Adjust)	AB	AA
R 0225	VRS-TV1JD181J	S	180 1/10W Metal Oxide	AA	AA
R 0226	RVR-M4628GEZZ	S	POT OHM MM V	AA	AA
R 0231	VRS-TV1JD564J	S	560K 1/10W Metal Oxide	AA	AA
R 0232	VRS-TV1JD470J	S	47 1/10W Metal Oxide	AA	AA
R 0234	VRS-TV1JD821J	S	820 1/10W Metal Oxide	AA	AA
R 0235	VRS-TV1JD563J	S	56K 1/10W Metal Oxide	AA	AA
R 0236	VRS-TV1JD563J	S	56K 1/10W Metal Oxide	AA	AA
R 0237	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 0238	VRS-TV1JD561J	S	560 1/10W Metal Oxide	AA	AA
R 0239	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 0240	VRS-TV1JD561J	S	560 1/10W Metal Oxide	AA	AA
R 0242	VRS-TV1JD151J	S	150 1/10W Metal Oxide	AA	AA
R 0244	VRS-TV1JD273J	S	27K 1/10W Metal Oxide	AA	AA
R 0245	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 0246	VRS-TV1JD683J	S	68K 1/10W Metal Oxide	AA	AA
R 0247	VRS-TV1JD220J	S	22 1/10W Metal Oxide	AA	AA
R 0248	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 0249	VRS-TV1JD271J	S	270 1/10W Metal Oxide	AA	AA
R 0250	VRS-TV1JD273J	S	27K 1/10W Metal Oxide	AA	AA
R 0251	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 0252	VRS-TV1JD470J	S	47 1/10W Metal Oxide	AA	AA
R 0301	VRD-RA2BE101J	S	100 1/8W Carbon	AA	AA
R 0302	VRD-RA2BE101J	S	100 1/8W Carbon	AA	AA
R 0303	VRD-RA2BE101J	S	100 1/8W Carbon	AA	AA
R 0304	VRD-RA2BE101J	S	100 1/8W Carbon	AA	AA
R 0315	VRS-TV1JD821J	S	820 1/10W Metal Oxide	AA	AA
R 0316	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 0317	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 0318	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 0319	VRS-TV1JD821J	S	820 1/10W Metal Oxide	AA	AA
R 0320	VRS-TV1JD272J	S	2.7K 1/10W Metal Oxide	AA	AA
R 0321	VRS-TV1JD272J	S	2.7K 1/10W Metal Oxide	AA	AA
R 0322	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 0323	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 0330	VRS-TV1JD000J	S	0 1/10W Metal Oxide	AA	AA
R 0331	VRS-TV1JD103F	S	10K 1/10W Metal Oxide	AA	AA
R 0332	VRS-TV1JD472F	S	4.7K 1/10W Metal Oxide	AA	AA
R 0333	VRS-TV1JD000J	S	0 1/10W Metal Oxide	AA	AA
R 0334	VRS-TV1JD103F	S	10K 1/10W Metal Oxide	AA	AA

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
R 0335	VRS-TV1JD472F	S	4.7K 1/10W Metal Oxide	AA	AA
R 0336	VRS-TV1JD123J	S	12K 1/10W Metal Oxide	AA	AA
R 0337	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 0338	VRS-TV1JD123J	S	12K 1/10W Metal Oxide	AA	AA
R 0339	VRD-RA2BE104J	S	100K 1/8W Carbon	AA	AA
R 0344	VRS-TQ2BD000J	S	Jumper	AA	AA
R 0345	VRD-RA2HD151J	S	150 1/2W Carbon	AA	AA
R 0354	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 0355	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 0356	VRS-TV1JD123J	S	12K 1/10W Metal Oxide	AA	AA
R 0357	VRS-TV1JD224J	S	220K 1/10W Metal Oxide	AA	AA
R 0358	VRS-TV1JD224J	S	220K 1/10W Metal Oxide	AA	AA
R 0359	VRS-TV1JD123J	S	12K 1/10W Metal Oxide	AA	AA
R 0364	VRS-TQ2BD000J	S	Jumper	AA	AA
R 0365	VRD-RA2HD151J	S	150 1/2W Carbon	AA	AA
R 0372	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 0374	VRS-TV1JD562J	S	5.6K 1/10W Metal Oxide	AA	AA
R 0375	VRS-TV1JD392J	S	3.9K 1/10W Metal Oxide	AA	AA
R 0376	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 0377	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 0378	VRS-TV1JD273J	S	27K 1/10W Metal Oxide	AA	AA
R 0379	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 0383	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 0384	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 0432	VRD-RA2BE101J	S	100 1/8W Carbon	AA	AA
R 0433	VRD-RA2BE101J	S	100 1/8W Carbon	AA	AA
R 0447	VRS-TV1JD000J	S	0 1/10W Metal Oxide	AA	AA
R 0448	VRS-TV1JD152J	S	1.5K 1/10W Metal Oxide	AA	AA
R 0449	VRD-RA2BE560J	S	56 1/8W Carbon	AA	AA
R 0450	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 0454	VRS-TV1JD471J	S	470 1/10W Metal Oxide	AA	AA
R 0455	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 0457	VRS-TV1JD332J	S	3.3K 1/10W Metal Oxide	AA	AA
R 0458	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 0459	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 0460	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 0463	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 0464	VRS-TV1JD222J	S	2.2K 1/10W Metal Oxide	AA	AA
R 0465	VRS-TV1JD222J	S	2.2K 1/10W Metal Oxide	AA	AA
R 0520	VRD-RA2BE222J	S	2.2K 1/8W Carbon	AA	AA
R 1001	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 1002	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 1003	VRS-TV1JD272J	S	2.7K 1/10W Metal Oxide	AA	AA
R 1004	VRS-TV1JD392J	S	3.9K 1/10W Metal Oxide	AA	AA
R 1005	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 1006	VRS-TV1JD332J	S	3.3K 1/10W Metal Oxide	AA	AA
R 1007	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 1008	VRS-TV1JD182J	S	1.8K 1/10W Metal Oxide	AA	AA
R 1010	VRS-TV1JD182J	S	1.8K 1/10W Metal Oxide	AA	AA
R 1012	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 1013	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 1014	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 1015	VRS-TV1JD221J	S	220 1/10W Metal Oxide	AA	AA
R 1017	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 1019	VRS-TV1JD822J	S	8.2K 1/10W Metal Oxide	AA	AA
R 1020	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 1021	VRS-TV1JD473J	S	47K 1/10W Metal Oxide	AA	AA
R 1023	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 1024	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 1025	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 1026	VRS-TV1JD822J	S	8.2K 1/10W Metal Oxide	AA	AA
R 1027	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 1028	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 1029	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 1030	VRD-RA2BE472J	S	4.7K 1/8W Carbon	AA	AA
R 1031	VRS-TV1JD822J	S	8.2K 1/10W Metal Oxide	AA	AA
R 1032	VRS-TV1JD822J	S	8.2K 1/10W Metal Oxide	AA	AA
R 1033	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 1034	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 1036	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 1037	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 1038	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
R 1048	VRD-RA2HD273J	S	27K 1/2W Carbon	AA	AA
R 1056	VRS-TV1JD473J	S	47K 1/10W Metal Oxide	AA	AA
R 1072	VRS-TV1JD332J	S	3.3K 1/10W Metal Oxide	AA	AA
R 1073	VRS-TV1JD332J	S	3.3K 1/10W Metal Oxide	AA	AA
R 1701	VRS-VV3LB100J	S	10 3W Metal Oxide	AB	AA

MISCELLANEOUS PARTS

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
	QSOCZ2051SC32	S	Socket 32 PIN	AC	AC
FB 1002	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
FB 1003	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
FB 1004	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
FB 1005	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
FB 1006	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
P 0301	QPLGN0341CEZZ	S	Connector	AA	AA
P 0332	QPLGN0241CEZZ	S	Connector	AA	AA
P 0334	QPLGN1141CEZZ	S	Connector	AC	**
P 0336	QPLGN1041CEZZ	S	Connector	AB	AA
P 0401	QPLGN0441CEZZ	S	Connector 4pin	AB	AB
P 0601	QPLGZ1338CEZZ	S		AE	AC
P 0701	QPLGZ1040CEZZ	S		AE	AC
P 0703	QPLGZ1338CEZZ	S		AE	AC
SC 0201	QSOCN0284FJZZ	S	Socket 20pin	AG	AD
SC 0607	QSOCN0284FJZZ	S	Socket 20pin	AG	AD
SC 1001	QSOCN1067BMZZ	S	Connector	AE	AB
SC 1003	QSOCN0284FJZZ	S	Socket 20pin	AG	AD

PWB-B POWER UNIT

INTEGRATED CIRCUITS

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
IC 0501	VHILA7841//-1	S	LA7841	AN	AG
IC 0601	RH-IX1556BMZZ	S	BA10393 S0P8	AD	AC
IC 0602	VHILM358D//-1	S	LM358DR	AE	AC
IC 0603	VHILM358D//-1	S	LM358DR	AE	AC
⚠ IC 0701	RH-FX0106BMZZ	S	M0C8106SR2V	AD	AC
IC 0703	RH-IX1641BMZZ	S	L4940V5	AH	AE
IC 0751	RH-IX1646BMZZ	S	ST6203B	AL	AF
IC 0752	VHIPST529C2-1	S	PST529C	AD	AD
⚠ IC 0753	RH-FX0106BMZZ	S	M0C8106SR2V	AD	AC
⚠ IC 0754	RH-FX0106BMZZ	S	M0C8106SR2V	AD	AC
IC 0755	RH-IX1601BMZZ	S	O.P.C.	AH	AF
⚠ IC 7001	RH-FX0106BMZZ	S	M0C8106SR2V	AD	AC

TRANSISTORS

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
Q 0501	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 0513	RH-TX0143BMZZ	S	BC557-B	AA	AA
Q 0514	RH-TX0142BMZZ	S	BC547-B	AB	AA
Q 0601	RH-TX0183BMZZ	S	BUH1015HI	AQ	AH
Q 0602	RH-TX0162BMZZ	S	MJD44H11	AF	AD
Q 0603	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 0604	VS2SA1037KQ-1	S	BC807	AA	AA
Q 0605	RH-TX0162BMZZ	S	MJD44H11	AF	AD
Q 0608	VS2SC5022//1E	S	2SC5022	AG	AD
Q 0609	RH-TX0142BMZZ	S	BC547-B	AB	AA
Q 0701	RH-TX0184BMZZ	S	STH9NA80FI ①	AV	AN
Q 0702	RH-TX0102BMZZ	S	BC338	AB	AA
Q 0703	RH-TX0102BMZZ	S	BC338	AB	AA
Q 0705	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 0712	VS2SA1037KQ-1	S	BC807	AA	AA
Q 0751	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 0752	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 7001	RH-TX0166BMZZ	S	2SK2605	AK	AG
Q 7002	RH-TX0102BMZZ	S	BC338	AB	AA
Q 7003	RH-TX0102BMZZ	S	BC338	AB	AA
Q 7004	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 7005	VS2SA1037KQ-1	S	BC807	AA	AA
Q 7006	VS2SA1037KQ-1	S	BC807	AA	AA
Q 7007	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 7008	RH-TX0163BMZZ	S	MJD45H11	AF	AE
Q 7009	VS2SA1037KQ-1	S	BC807	AA	AA
Q 7010	RH-TX0162BMZZ	S	MJD44H11	AF	AD

DIODES

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
D 0501	RH-DX0505BMZZ	S	1N4935	AB	AB
D 0502	RH-EX0654CEZZ	S	Zener 60V	AE	AC
D 0520	RH-EX0537BMZZ	S	Zener TZMC2V4	AB	AA
D 0530	RH-DX0551BMZZ	S	LL4148	AA	AA
D 0601	RH-DX0505BMZZ	S	1N4935	AB	AB
D 0603	RH-DX0045BMZZ	S	1N4148	AA	AA
D 0604	RH-DX0506BMZZ	S	1N4936	AB	AB
D 0605	RH-DX0585BMZZ	S	DMV32AF5	AM	AH
D 0607	RH-DX0505BMZZ	S	1N4935	AB	AB
D 0609	RH-DX0589BMZZ	S	MBR3100RL	AF	AC
D 0610	RH-DX0565BMZZ	S	1N5822RL	AD	AC
D 0611	RH-DX0045BMZZ	S	1N4148	AA	AA
D 0613	RH-DX0045BMZZ	S	1N4148	AA	AA
D 0616	RH-DX0045BMZZ	S	1N4148	AA	AA
D 0617	RH-DX0045BMZZ	S	1N4148	AA	AA
D 0619	RH-DX0551BMZZ	S	LL4148	AA	AA
D 0620	RH-DX0551BMZZ	S	LL4148	AA	AA
D 0623	RH-DX0484CEZZ	S		AE	AC
D 0624	RH-DX0045BMZZ	S	1N4148	AA	AA
D 0625	RH-EX0437BMZZ	S	Zener 12V 1W	AC	AB
D 0626	RH-EX0437BMZZ	S	Zener 12V 1W	AC	AB
D 0627	RH-EX0431BMZZ	S	Zener BZX79C47V	AA	AA
D 0628	RH-DX0506BMZZ	S	1N4936	AB	AB
D 0629	RH-EX0478BMZZ	S	Zener 1N4732 (4V7)	AB	AA
D 0630	RH-DX0519BMZZ	S	1N5819	AD	AB
D 0640	RH-DX0551BMZZ	S	LL4148	AA	AA
D 0641	RH-EX0546BMZZ	S	Zener TZMC5V6	AA	AA
D 0645	RH-DX0045BMZZ	S	1N4148	AA	AA
D 0646	RH-DX0045BMZZ	S	1N4148	AA	AA
D 0647	RH-DX0045BMZZ	S	1N4148	AA	AA
D 0701	RH-DX0545BMZZ	S	1N5406 600V 3A	AD	AB
D 0702	RH-DX0545BMZZ	S	1N5406 600V 3A	AD	AB
D 0703	RH-DX0545BMZZ	S	1N5406 600V 3A	AD	AB
D 0704	RH-DX0545BMZZ	S	1N5406 600V 3A	AD	AB
D 0705	RH-DX0539BMZZ	S	BYT52M	AC	AA
D 0706	RH-DX0045BMZZ	S	1N4148	AA	AA
D 0707	RH-EX0411BMZZ	S	Zener BZX79C6V8	AA	AA
D 0708	RH-DX0602BMZZ	S	MUR4100	AH	AE
D 0709	RH-DX0505BMZZ	S	1N4935	AB	AB
D 0710	RH-DX0587BMZZ	S	MR826	AP	AH
D 0717	RH-EX0482BMZZ	S	Zener BZX79 B6V2	AA	AA
D 0718	RH-EX0419BMZZ	S	Zener BZX79C15V 0.4W	AB	AA
D 0719	RH-DX0587BMZZ	S	MR826	AP	AH
D 0720	RH-DX0045BMZZ	S	1N4148	AA	AA
D 0729	RH-DX0551BMZZ	S	LL4148	AA	AA
D 0730	RH-DX0045BMZZ	S	1N4148	AA	AA
D 0731	RH-DX0296CEZZ	S	ESAB92M-02	AG	AG
D 0732	RH-DX0296CEZZ	S	ESAB92M-02	AG	AG
D 0751	RH-DX0559BMZZ	S	BAS12	AC	AB
D 0752	RH-DX0559BMZZ	S	BAS12	AC	AB
D 0753	RH-DX0559BMZZ	S	BAS12	AC	AB
D 0754	RH-EX0480BMZZ	S	Zener BZX79 B5V1	AA	AA
D 0755	RH-DX0045BMZZ	S	1N4148	AA	AA
D 0756	RH-DX0045BMZZ	S	1N4148	AA	AA
D 0757	RH-DX0045BMZZ	S	1N4148	AA	AA
D 0758	RH-PX0105BMZZ	S	LED	AC	AC
D 0759	RH-PX0105BMZZ	S	LED	AC	AC
D 7002	RH-DX0045BMZZ	S	1N4148	AA	AA
D 7005	RH-DX0539BMZZ	S	BYT52M	AC	AA
D 7006	RH-DX0551BMZZ	S	LL4148	AA	AA
D 7007	RH-EX0409BMZZ	S	Zener BZX79C5V6	AA	AA
D 7011	RH-DX0587BMZZ	S	MR826	AP	AH
D 7018	RH-EX0419BMZZ	S	Zener BZX79C15V 0.4W	AB	AA
D 7020	RH-DX0551BMZZ	S	LL4148	AA	AA
D 7023	RH-DX0587BMZZ	S	MR826	AP	AH
D 7024	RH-EX0584BMZZ	S	Zener TZMBC6V2	AA	AA
D 7025	RH-EX0405BMZZ	S	Zener BZX79C3V9	AB	AB

① Sostituito con RH-TX 0188BMZZ
(SSF10N80A)

REF. NO	PARTS	★	DESCRIPTION	CODE	
				EX	SP
D 7026	RH-EX0558BMZZ	S	Zener TZMC18	AA	AA
D 7027	RH-EX0539BMZZ	S	Zener TZMC3V0	AA	AA
D 7028	RH-EX0558BMZZ	S	Zener TZMC18	AA	AA
D 7029	RH-EX0539BMZZ	S	Zener TZMC3V0	AA	AA
D 7030	RH-EX0417BMZZ	S	Zener BZX79C12V	AA	AA
D 7031	RH-EX0558BMZZ	S	Zener TZMC18	AA	AA
			PACKADGED CIRCUITS		
⚠PR 0701	RMPTP0028CEZZ	S	P.T.C.	AG	AC
			COILS		
L 0602	RCILZ0719BMZZ	S	Linearity Coil	AN	AG
L 0604	RCILP0263BMZZ	S	350μH	AG	AD
L 0605	RCILP0272BMZZ	S	10mH	AG	AD
L 0606	RCILP0243BMZZ	S	33μH	AD	AC
L 0607	VP-CF3R3K0000	S	3.3μH	AB	AB
L 0608	VP-CF3R3K0000	S	3.3μH	AB	AB
L 0609	RCILP0265BMZZ	S	1.5μH	AD	AC
⚠L 0700	RCILF0108BMZZ	S	Main Filter	AL	AF
L 0701	RCILF0154CEZZ	S	Coil	AQ	AQ
L 0702	RCILP0110CEZZ	S	3.3μH	AD	AD
L 0703	RCILP0110CEZZ	S	3.3μH	AD	AD
L 0708	VP-CF1R0K0000	S	1μH	AB	AA
L 0709	VP-CF1R0K0000	S	1μH	AB	AA
L 0710	RCILP0213BMZZ	S	13.5μH	AF	AA
			CERAMIC FILTERS		
CF 0751	RFILC0121GEZZ	S	Filter 8 MHz	AD	AC
			TRANSFORMERS		
⚠T 0601	RTRNF2052BMZZ	S	F.B.T.	BV	BK
⚠T 0602	RTRNZ0553BMZZ	S	Focus Transformer	AU	AM
⚠T 0701	RTRNZ0566BMZZ	S	Chopper	AX	AL
⚠T 7000	RTRNZ0548BMZZ	S	Dolby Power Transformer	AU	AR
			CAPACITORS		
C 0501	VCEAGA1EW477M	S	470 25V Electrolytic	AD	AC
C 0502	VCEAGA1EW477M	S	470 25V Electrolytic	AD	AC
C 0503	RC-FZ0272CEZZ	S	0.39 100V Mylar	AD	AB
C 0504	RC-FZ0272CEZZ	S	0.39 100V Mylar	AD	AB
C 0505	RC-FZ9103BMNJ	J	0.01 63V Mylar	AB	AA
C 0506	VCEAGA1HW107M	S	100 50V Electrolytic	AC	AC
C 0521	VCKYTV1HB332K	S	3300p 50V Ceramic	AA	AA
C 0527	VCEAGA1CW106M	S	10 16V Electrolytic	AA	AA
C 0528	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0530	VCE9GA1CW106M	S	10 16V Electrolytic (N/P)	AC	AA
C 0531	VCEAGA1CW106M	S	10 16V Electrolytic	AA	AA
C 0535	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 0536	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 0601	VCFPPD3DA622H	S		AE	AC
C 0603	RC-FZ9103BMNJ	J	0.01 63V Mylar	AB	AA
C 0604	VCEAGA1AW108M	S	1000 10V Electrolytic	AC	AA
C 0605	RC-FZ7224BMNJ	J	0.22 400V Mylar	AE	AC
C 0606	RC-FZ7684BMNJ	J	0.68 400V Mylar	AH	AE
C 0607	RC-FZ7824BMNJ	J	0.82 400V Mylar	AK	AG
C 0609	VCEAGA2EW106M	S	10 250V Electrolytic	AD	AC
C 0610	RC-FZ0159BMZZ	S	0.015 630V Mylar	AE	AC
C 0616	VCEAGA1EW108M	S	1000 25V Electrolytic	AD	AD
C 0618	VCEAGA1EW108M	S	1000 25V Electrolytic	AD	AD
C 0619	VCEAGA1JW107M	S	100 63V Electrolytic	AB	AA
C 0620	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 0623	VCFPVC3CA822H	S		AD	AB
C 0624	RC-KZ0036CEZZ	S	330p 2KV Ceramic	AB	AA
C 0625	RC-KZ0036CEZZ	S	330p 2KV Ceramic	AB	AA
C 0626	VCEAGA2DW106M	S	10 200V Electrolytic	AD	AB
C 0627	RC-KZ0052CEZZ	S		AC	AA
C 0631	VCEAGA2CW105M	S	1 160V Electrolytic	AB	AA

REF. NO	PARTS	★	DESCRIPTION	CODE	
				EX	SP
C 0632	RC-FZ8472BMNJ	S	4700p 630V Mylar	AC	AB
C 0633	VCFPPD3DA682H	S		AE	AC
C 0634	RC-FZ6474BMNJ	J	0.47 250V Mylar	AE	AB
C 0640	VCCCTV1HH181J	S	180p 50V Ceramic	AA	AA
C 0641	VCE9GA1HW335M	S	3.3 50V Electrolytic	AB	AA
C 0643	RC-FZ9103BMNJ	J	0.01 63V Mylar	AB	AA
C 0644	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0648	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0649	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0650	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 0700	RC-FZ0160BMZZ	S	0.47 275V Mylar	AF	AC
C 0701	RC-KZ0029CEZZ	S	0.01 250V Ceramic	AC	AC
C 0705	RC-FZ0156BMZZ	S	0.022 630V Mylar	AE	AD
C 0706	RC-EZ0123BMZZ	S	470 385V Electrolytic	AW	AP
C 0707	RC-FZ9153BMNJ	J	0.015 63V Mylar	AB	AA
C 0708	RC-FZ9273BMNJ	J	0.027 63V Mylar	AB	AA
C 0709	RC-FZ9332BMNJ	J	3300p 63V Mylar	AA	AA
C 0710	RC-FZ9102BMNJ	J	1000p 63V Mylar	AB	AA
C 0711	RC-EZ0399CEZZ	S		AA	AA
C 0712	VCEAGA1CW477M	S	470 16V Electrolytic	AC	AA
C 0713	VCEAGA1CW108M	S	1000 16V Electrolytic	AE	AD
C 0717	RC-KZ0156CEZZ	S	3300p 4KV Ceramic	AD	AB
C 0718	RC-KZ0038CEZZ	S	470p 2KV Ceramic	AB	AB
C 0719	VCEAGA1EW228M	S	2200 25V Electrolytic	AG	AD
C 0720	VCEAGA1EW228M	S	2200 25V Electrolytic	AG	AD
C 0721	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 0722	RC-EZ0258CEZZ	S	100 200V Electrolytic	AH	AH
C 0726	VCKYPA2HB331K	S	330p 500V Ceramic	AA	AA
C 0728	VCCCPA1HH101J	S	100p 50V Ceramic	AA	AA
C 0729	VCEAGA1AW477M	S	470 10V Electrolytic	AB	AA
C 0730	VCEAGA1AW228M	S	2200 10V Electrolytic	AD	AB
C 0739	RC-KZ0029CEZZ	S	0.01 250V Ceramic	AC	AC
C 0740	RC-KZ0029CEZZ	S	0.01 250V Ceramic	AC	AC
C 0742	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 0743	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 0751	VCEAGA1CW476M	S	47 16V Electrolytic	AB	AB
C 0752	VCEAGA1AW107M	S	100 10V Electrolytic	AA	AA
C 0753	VCEAGA1AW226M	S	22 10V Electrolytic	AA	AA
C 0754	VCEAGA1CW226M	S	22 16V Electrolytic	AA	AA
C 0755	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 0756	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 0757	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 0758	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 0759	VCEAGA1AW476M	S	47 10V Electrolytic	AA	AA
C 7005	RC-KZ0029CEZZ	S	0.01 250V Ceramic	AC	AC
C 7007	RC-FZ9153BMNJ	J	0.015 63V Mylar	AB	AA
C 7008	RC-FZ9683BMNJ	J	0.068 63V Mylar	AB	AA
C 7009	VCKYTV1HF333Z	S	0.033 50V Ceramic	AA	AA
C 7010	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 7015	VCEAGA1EW228M	S	2200 25V Electrolytic	AG	AD
C 7016	VCEAGA1EW228M	S	2200 25V Electrolytic	AG	AD
C 7018	RC-KZ0035CEZZ	S	220p 2KV Ceramic	AC	AA
C 7023	VCKYPA2HB471K	S	470p 500V Ceramic	AB	AB
C 7025	RC-KZ0035CEZZ	S	220p 2KV Ceramic	AC	AA
C 7026	VCKYPA1HB471K	S	470p 50V Ceramic	AA	AA
C 7027	RC-FZ7104BMNJ	J	0.1 400V Mylar	AD	AB
C 7029	VCEAGA1CW108M	S	1000 16V Electrolytic	AE	AD
C 7030	VCKYPA2HB103K	S	0.01 500V Ceramic	AC	AB
			RESISTORS		
R 0501	VRD-RA2BE821J	S	820 1/8W Carbon	AA	AA
R 0502	VRD-RA2BE821J	S	820 1/8W Carbon	AA	AA
R 0503	VRD-RA2BE392J	S	3.9K 1/8W Carbon	AA	AA
R 0504	VRD-RA2BE272J	S	2.7K 1/8W Carbon	AA	AA
R 0505	VRD-RA2BE272J	S	2.7K 1/8W Carbon	AA	AA
R 0506	VRS-VV3LB151J	S	150 3W Metal Oxide	AB	AA
R 0507	VRN-VV3DB1R0J	S	1 2W Metal Film	AA	AA
R 0508	VRD-RA2HD1R0J	S	1 1/2W Carbon	AA	AA
R 0537	VRS-TV1JD332J	S	3.3K 1/10W Metal Oxide	AA	AA
R 0538	VRS-TV1JD122J	S	1.2K 1/10W Metal Oxide	AA	AA
R 0541	VRS-TV1JD222J	S	2.2K 1/10W Metal Oxide	AA	AA

REF. NO	PARTS	★	DESCRIPTION	CODE	
				EX	SP
R 0543	VRS-VV3AB101J	S	100 1W Metal Oxide	AA	AA
R 0545	VRS-TV1JD154J	S	150K 1/10W Metal Oxide	AA	AA
R 0551	VRD-RA2BE104J	S	100K 1/8W Carbon	AA	AA
R 0554	VRD-RA2BE104J	S	100K 1/8W Carbon	AA	AA
R 0555	VRD-RA2BE222J	S	2.2K 1/8W Carbon	AA	AA
R 0557	VRD-RA2HD100J	S	10 1/2W Carbon	AA	AA
R 0558	VRD-RA2BE471J	S	470 1/8W Carbon	AA	AA
R 0559	VRS-VV3AB101J	S	100 1W Metal Oxide	AA	AA
R 0560	VRD-RA2BE101J	S	100 1/8W Carbon	AA	AA
R 0561	VRD-RA2BE103J	S	10K 1/8W Carbon	AA	AA
R 0562	VRS-TV1JD105J	S	1M 1/10W Metal Oxide	AA	AA
R 0563	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 0601	VRD-RA2BE682J	S	6.8K 1/8W Carbon	AA	AA
R 0602	VRD-RA2EE681J	S	680 1/4W Carbon	AA	AA
R 0603	RR-XZ0206BMZZ	S	3.3 1/2W Fuse Resistor	AB	AA
R 0604	VRN-VV3LB5R6J	S	5.6 3W Metal Film	AC	AA
R 0605	VRD-RA2BE222J	S	2.2K 1/8W Carbon	AA	AA
R 0606	VRD-RA2BE102J	S	1K 1/8W Carbon	AA	AA
R 0607	VRN-VV3ABR33J	S	0.33 1W Metal Film	AA	AA
R 0608	VRN-VV3LB6R8J	S	6.8 3W Metal Film	AB	AA
R 0609	VRN-VV3DB6R8J	S	6.8 2W Metal Film	AB	AB
R 0610	VRS-VV3DB561J	S	560 2W Metal Oxide	AA	AA
R 0618	VRD-RA2BE222J	S	2.2K 1/8W Carbon	AA	AA
R 0619	VRS-VV3AB561J	S	560 1W Metal Oxide	AA	AA
R 0620	VRS-VV3AB102J	S	1K 1W Metal Oxide	AB	AA
R 0624	RR-XZ0200BMZZ	S	1 1/2W Fuse Resistor	AB	AA
R 0625	VRD-RA2HD393J	S	39K 1/2W Carbon	AA	AA
R 0627	VRD-RA2BE823J	S	82K 1/8W Carbon	AA	AA
R 0634	VRS-TV1JD222J	S	2.2K 1/10W Metal Oxide	AA	AA
R 0635	VRD-RA2BE470J	S	47 1/8W Carbon	AA	AA
R 0639	VRD-RA2BE823J	S	82K 1/8W Carbon	AA	AA
R 0640	RR-XZ0208BMZZ	S	4.7 1/2W Fuse Resistor	AA	AA
R 0641	VRD-RA2HD270J	S	27 1/2W Carbon	AA	AA
R 0642	VRS-VV3LB104J	S	100K 3W Metal Oxide	AB	AA
R 0643	VRS-VV3LB104J	S	100K 3W Metal Oxide	AB	AA
R 0644	VRD-RA2BE332J	S	3.3K 1/8W Carbon	AA	AA
R 0645	VRC-MA2HG333J	S		AB	AA
R 0646	VRD-RA2BE103J	S	10K 1/8W Carbon	AA	AA
R 0647	VRS-VV3AB181J	S	180 1W Metal Oxide	AA	AA
R 0648	VRN-VV3LB1R5J	S	1.5 3W Metal Film	AB	AA
R 0649	VRS-VV3LB561J	S	560 3W Metal Oxide		
R 0650	VRD-RA2BE104J	S	100K 1/8W Carbon	AA	AA
R 0651	VRS-VV3DB222J	S	2.2K 2W Metal Oxide	AA	AA
R 0652	VRD-RA2HD334J	S	330K 1/2W Carbon	AA	**
R 0653	VRD-RA2HD224J	S	220K 1/2W Carbon	AA	AA
R 0655	VRD-RA2HD184J	S	180K 1/2W Carbon	AA	AA
R 0656	VRD-RA2HD104J	S	100K 1/2W Carbon	AA	AA
R 0657	VRS-TV1JD562J	S	5.6K 1/10W Metal Oxide	AA	AA
R 0658	VRS-VV3DB222J	S	2.2K 2W Metal Oxide	AA	AA
R 0659	VRD-RA2BE102J	S	1K 1/8W Carbon	AA	AA
R 0660	VRD-RA2BE103J	S	10K 1/8W Carbon	AA	AA
R 0661	VRS-TV1JD393J	S	39K 1/10W Metal Oxide	AA	AA
R 0662	VRS-TV1JD393J	S	39K 1/10W Metal Oxide	AA	AA
R 0663	VRS-TV1JD473J	S	47K 1/10W Metal Oxide	AA	AA
R 0664	VRS-TV1JD273J	S	27K 1/10W Metal Oxide	AA	AA
R 0665	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 0666	VRS-TV1JD823J	S	82K 1/10W Metal Oxide	AA	AA
R 0667	VRS-TV1JD473J	S	47K 1/10W Metal Oxide	AA	AA
R 0668	VRD-RA2BE333J	S	33K 1/8W Carbon	AA	AA
R 0670	VRD-RA2HD273J	S	27K 1/2W Carbon	AA	AA
R 0671	VRS-VV3LB104J	S	100K 3W Metal Oxide	AB	AA
R 0673	VRS-TV1JD000J	S	0 1/10W Metal Oxide	AA	AA
R 0674	VRD-RA2HD331J	S	330 1/2W Carbon	AA	AA
R 0675	VRD-RA2HD271J	S	270 1/2W Carbon	AA	AA
R 0700	VRD-RA2HD104J	S	100K 1/2W Carbon	AA	AA
R 0701	VRD-RA2HD104J	S	100K 1/2W Carbon	AA	AA
R 0702	VRS-VV3LB153J	S	15K 3W Metal Oxide	AB	AA
R 0703	VRD-RA2BE103J	S	10K 1/8W Carbon	AA	AA
R 0704	VRD-RA2HD564J	S	560K 1/2W Carbon	AC	AB
R 0705	VRD-RA2HD564J	S	560K 1/2W Carbon	AC	AB
R 0706	VRN-VV3DBR18J	S	0.18 2W Metal Film	AB	AA
R 0707	VRD-RA2BE221J	S	220 1/8W Carbon	AA	AA
R 0708	VRS-VV3AB820J	S	82 1W Metal Oxide	AA	AA
R 0709	VRD-RA2BE330J	S	33 1/8W Carbon	AA	AA
R 0710	VRD-RA2HD122J	S	1.2K 1/2W Carbon	AA	AA
R 0714	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 0715	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 0716	VRS-TQ2BD473F	S	47K 1/8W Metal Oxide	AA	AA
R 0717	VRS-TV1JD473J	S	47K 1/10W Metal Oxide	AA	AA
R 0718	VRS-TQ2BD473F	S	47K 1/8W Metal Oxide	AA	AA
R 0719	VRS-TV1JD152J	S	1.5K 1/10W Metal Oxide	AA	AA
R 0720	VRD-RA2BE223J	S	22K 1/8W Carbon	AA	AA
R 0721	VRC-UA2HG825K	S	8.2M 1/2W Solid	AA	AA
R 0722	VRC-UA2HG825K	S	8.2M 1/2W Solid	AA	AA
R 0723	VRS-TV1JD561J	S	560 1/10W Metal Oxide	AA	AA
R 0746	VRW-KQ41C4R7K	S	4.7 15W Cement	AE	AC
R 0749	VRS-VV3LB153J	S	15K 3W Metal Oxide	AB	AA
R 0751	VRS-VV3AB563J	S	56K 1W Metal Oxide	AA	AA
R 0752	VRS-VV3AB563J	S	56K 1W Metal Oxide	AA	AA
R 0753	VRD-RA2HD224J	S	220K 1/2W Carbon	AA	AA
R 0754	VRD-RA2HD224J	S	220K 1/2W Carbon	AA	AA
R 0755	VRS-TV1JD272J	S	2.7K 1/10W Metal Oxide	AA	AA
R 0756	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 0757	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 0758	VRS-TV1JD473J	S	47K 1/10W Metal Oxide	AA	AA
R 0759	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 0760	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 0761	VRS-TV1JD473J	S	47K 1/10W Metal Oxide	AA	AA
R 0762	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 0763	VRS-TV1JD473J	S	47K 1/10W Metal Oxide	AA	AA
R 0764	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 0765	VRS-TV1JD473J	S	47K 1/10W Metal Oxide	AA	AA
R 0766	VRS-TV1JD272J	S	2.7K 1/10W Metal Oxide	AA	AA
R 0767	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 0768	VRS-TV1JD561J	S	560 1/10W Metal Oxide	AA	AA
R 0769	VRS-TV1JD182J	S	1.8K 1/10W Metal Oxide	AA	AA
R 0770	VRS-TV1JD821J	S	820 1/10W Metal Oxide	AA	AA
R 0771	VRS-TV1JD272J	S	2.7K 1/10W Metal Oxide	AA	AA
R 0772	VRD-RA2BE101J	S	100 1/8W Carbon	AA	AA
R 0774	VRD-RA2BE101J	S	100 1/8W Carbon	AA	AA
R 0775	VRD-RA2BE101J	S	100 1/8W Carbon	AA	AA
R 7001	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 7002	VRD-RA2HD224J	S	220K 1/2W Carbon	AA	AA
R 7004	VRD-RA2HD564J	S	560K 1/2W Carbon	AC	AB
R 7005	VRD-RA2HD564J	S	560K 1/2W Carbon	AC	AB
R 7006	VRN-VV3ABR22J	S	0.22 1W Metal Film	AA	AB
R 7007	VRS-TV1JD221J	S	220 1/10W Metal Oxide	AA	AA
R 7008	VRD-RA2HD102J	S	1K 1/2W Carbon	AA	AA
R 7009	VRD-RA2BE330J	S	33 1/8W Carbon	AA	AA
R 7010	VRD-RA2HD102J	S	1K 1/2W Carbon	AA	AA
R 7015	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 7017	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 7018	VRS-TV1JD562J	S	5.6K 1/10W Metal Oxide	AA	AA
R 7020	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 7021	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 7022	VRS-TV1JD332J	S	3.3K 1/10W Metal Oxide	AA	AA
R 7023	VRS-TV1JD123J	S	12K 1/10W Metal Oxide	AA	AA
R 7024	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 7025	VRS-TV1JD181J	S	180 1/10W Metal Oxide	AA	AA
R 7026	VRS-TV1JD822J	S	8.2K 1/10W Metal Oxide	AA	AA
R 7027	VRS-TV1JD332J	S	3.3K 1/10W Metal Oxide	AA	AA
R 7028	VRS-VV3AB180J	S	18 1W Metal Oxide	AA	AA
R 7029	VRS-TV1JD181J	S	180 1/10W Metal Oxide	AA	AA
R 7030	VRS-TV1JD822J	S	8.2K 1/10W Metal Oxide	AA	AA
R 7031	VRS-TV1JD332J	S	3.3K 1/10W Metal Oxide	AA	AA
R 7032	VRS-VV3AB180J	S	18 1W Metal Oxide	AA	AA
MISCELLANEOUS PARTS					
	QFSHD1009CEZZ	S	Fuse Holder	AA	AA
	QFSHD1010CEZZ	S	Fuse Holder	AB	AA
⚠F 0601	QFS-J2521CEZZ	S	Fuse 2.5A 125V	AD	AC
⚠F 0602	QFS-J2521CEZZ	S	Fuse 2.5A 125V	AD	AC
⚠F 0700	QFS-C3226CEZZ	S	Fuse 3.15A 250V	AE	AC

REF. NO	PARTS	★	DESCRIPTION	CODE	
				EX	SP
⚠F 0702	QFS-J2521CEZZ	S	Fuse 2.5A 125V	AD	AC
⚠F 0703	QFS-J2521CEZZ	S	Fuse 2.5A 125V	AD	AC
⚠S 0700	QSW-P0600BMZZ	S	Power Switch	AL	AF
S 0751	QSW-K0079GEZZ	S	Switch	AB	AA
S 0752	QSW-K0079GEZZ	S	Switch	AB	AA
S 0753	QSW-K0079GEZZ	S	Switch	AB	AA
S 0754	QSW-K0079GEZZ	S	Switch	AB	AA
RMC0751	RRMCU0228CEZZ	S	Remote Control Receiver	AH	AE
LP 0701	RLAMP0001BMZZ	S	Neon	AC	AB
FB 0601	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
FB 0602	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
FB 0701	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
FB 0702	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
FB 0703	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
FB 0704	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
FB 7001	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
FB 7006	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
FB 7008	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
FB 7012	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
FB 7013	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
P 0501	QPLGN0160FJZZ	S	Connector	AD	AB
P 0503	QPLGN0341CEZZ	S	Connector	AA	AA
P 0601	QTIPM0017CEFM	S	TIP	AA	AA
P 0603	QPLGN0241CEZZ	S	Connector	AA	AA
P 0605	QPLGN0441CEZZ	S	Connector 4pin	AB	AB
P 0705	QPLGN0304CEZZ	S	Connector	AB	AB
P 0707	QPLGN0207CEZZ	S	Connector	AA	AA
P 0709	QPLGN1041CEZZ	S	Connector	AB	AA
SC 0601	QSOCZ1338CEZZ	S		AD	AB
SC 0701	QSOCZ1040CEZZ	S		AC	AB
SC 0703	QSOCZ1338CEZZ	S		AD	AB

PWB-C SOCKET UNIT

INTEGRATED CIRCUITS

REF. NO	PARTS	★	DESCRIPTION	CODE	
				EX	SP
IC 0850	VHITDA6111Q-1	S	TDA6111Q	AQ	AH
IC 0851	VHITDA6111Q-1	S	TDA6111Q	AQ	AH
IC 0852	VHITDA6111Q-1	S	TDA6111Q	AQ	AH

TRANSISTORS

REF. NO	PARTS	★	DESCRIPTION	CODE	
				EX	SP
Q 0851	VS2SA1246//1E	S	2SA1246	AC	AA
Q 0854	RH-TX0142BMZZ	S	BC547-B	AB	AA
Q 5401	RH-TX0142BMZZ	S	BC547-B	AB	AA
Q 5403	RH-TX0142BMZZ	S	BC547-B	AB	AA
Q 5404	RH-TX0142BMZZ	S	BC547-B	AB	AA
Q 5405	RH-TX0142BMZZ	S	BC547-B	AB	AA
Q 5406	RH-TX0143BMZZ	S	BC557-B	AA	AA
Q 5407	VS2SA1837//-1	S	2SA1837	AF	AC
Q 5408	VS2SC4793//-1	S	2SC4793.	AF	AC
Q 5409	RH-TX0111BMZZ	S	PH-2369	AB	AA
Q 5415	RH-TX0142BMZZ	S	BC547-B	AB	AA

DIODES

REF. NO	PARTS	★	DESCRIPTION	CODE	
				EX	SP
D 0851	RH-DX0045BMZZ	S	1N4148	AA	AA
D 0852	RH-DX0045BMZZ	S	1N4148	AA	AA
D 0853	RH-DX0045BMZZ	S	1N4148	AA	AA
D 0854	RH-DX0045BMZZ	S	1N4148	AA	AA
D 0855	RH-DX0045BMZZ	S	1N4148	AA	AA
D 0861	RH-DX0501BMZZ	S	1N4004	AA	AA
D 0862	RH-DX0501BMZZ	S	1N4004	AA	AA
D 0863	RH-DX0501BMZZ	S	1N4004	AA	AA
D 0864	RH-DX0045BMZZ	S	1N4148	AA	AA
D 5403	RH-DX0045BMZZ	S	1N4148	AA	AA
D 5404	RH-DX0501BMZZ	S	1N4004	AA	AA
D 5405	RH-DX0501BMZZ	S	1N4004	AA	AA
D 5408	RH-DX0045BMZZ	S	1N4148	AA	AA
D 5409	RH-DX0045BMZZ	S	1N4148	AA	AA
D 5410	RH-DX0045BMZZ	S	1N4148	AA	AA

COILS

REF. NO	PARTS	★	DESCRIPTION	CODE	
				EX	SP
L 0863	RCILP0227CEZZ	S		AG	AD
L 5401	VP-MK120K0000	S		AB	AA

CAPACITORS

REF. NO	PARTS	★	DESCRIPTION	CODE	
				EX	SP
C 0850	VCEAGA1CW337M	S	330 16V Electrolytic	AC	AC
C 0851	VCEAGA1CW476M	S	47 16V Electrolytic	AB	AB
C 0852	VCKZPA1HF103Z	S	0.01 50V Ceramic	AA	AA
C 0853	VCEAGA1CW108M	S	1000 16V Electrolytic	AE	AD
C 0854	VCEAGA1CW107M	S	100 16V Electrolytic	AB	AA
C 0861	VCCCPA1HH7R0D	S	7p 50V Ceramic	AA	AA
C 0862	VCCCPA1HH7R0D	S	7p 50V Ceramic	AA	AA
C 0863	VCEAGA1CW106M	S	10 16V Electrolytic	AA	AA
C 0865	VCCCPA1HH7R0D	S	7p 50V Ceramic	AA	AA
C 0868	VCEAGA2EW476M	S	47 250V Electrolytic		
C 0869	RC-KZ015JCEZZ	S	Ceramic	AC	AA
C 0871	VCKZPA1HF103Z	S	0.01 50V Ceramic	AA	AA
C 0874	VCKZPA1HF103Z	S	0.01 50V Ceramic	AA	AA
C 0877	VCKZPA1HF103Z	S	0.01 50V Ceramic	AA	AA
C 0880	VCFYAA2EA333K	J	0.033 250V Mylar	AE	AC
C 0881	RC-FZ9472BMNJ	J	4700p 63V Mylar	AB	AA
C 0882	VCFYAA2EA333K	J	0.033 250V Mylar	AE	AC
C 0883	RC-FZ9472BMNJ	J	4700p 63V Mylar	AB	AA
C 0884	VCFYAA2EA333K	J	0.033 250V Mylar	AE	AC
C 0885	RC-FZ9472BMNJ	J	4700p 63V Mylar	AB	AA
C 0887	VCEAGA1CW227M	S	220 16V Electrolytic	AC	AC
C 5401	VCCCPA1HH6R0D	S	6p 50V Ceramic	AA	AA
C 5402	RC-FZ9474BMNJ	J	0.47 63V Mylar	AD	AB
C 5403	VCKZPA1HF103Z	S	0.01 50V Ceramic	AA	AA
C 5404	VCKZPA1HF103Z	S	0.01 50V Ceramic	AA	AA
C 5405	VCEAGA1EW476M	S	47 25V Electrolytic	AA	AA
C 5406	VCCSPA1HL391J	S	390p 50V Ceramic	AA	AA
C 5407	VCKZPA1HF103Z	S	0.01 50V Ceramic	AA	AA
C 5408	VCKYPA2HB472K	S	4700p 500V Ceramic	AB	AA
C 5409	VCKYPA1HB472K	S	4700p 50V Ceramic	AB	AA
C 5410	VCKZPA1HF103Z	S	0.01 50V Ceramic	AA	AA
C 5411	VCKZPA1HF103Z	S	0.01 50V Ceramic	AA	AA
C 5412	VCEAGA1CW107M	S	100 16V Electrolytic	AB	AA
C 5413	VCEAGA1CW107M	S	100 16V Electrolytic	AB	AA
C 5414	VCEAGA2CW226M	S	22 160V Electrolytic	AD	AB
C 5415	VCEAGA2CW226M	S	22 160V Electrolytic	AD	AB
C 5417	VCCSPA2HL220K	S		AB	AA

RESISTORS

REF. NO	PARTS	★	DESCRIPTION	CODE	
				EX	SP
R 0850	VRD-RA2BE101J	S	100 1/8W Carbon	AA	AA
R 0851	VRD-RA2BE101J	S	100 1/8W Carbon	AA	AA
R 0852	VRD-RA2BE101J	S	100 1/8W Carbon	AA	AA
R 0853	VRD-RA2BE223J	S	22K 1/8W Carbon	AA	AA
R 0853	VRD-RA2BE102J	S	1K 1/8W Carbon	AA	AA
R 0856	VRD-RA2EE680J	S	68 1/4W Carbon	AA	AA
R 0859	VRD-RA2BE101J	S	100 1/8W Carbon	AA	AA
R 0861	VRD-RA2BE152J	S	1.5K 1/8W Carbon	AA	AA
R 0862	VRD-RA2BE102J	S	1K 1/8W Carbon	AA	AA
R 0863	VRD-RA2BE222J	S	2.2K 1/8W Carbon	AA	AA
R 0865	VRD-RA2BE332J	S	3.3K 1/8W Carbon	AA	AA
R 0866	VRD-RA2BE222J	S	2.2K 1/8W Carbon	AA	AA
R 0868	VRD-RA2BE222J	S	2.2K 1/8W Carbon	AA	AA
R 0871	RVR-B5784CEZZ	S		AH	AD
R 0872	VRD-RA2BE272J	S	2.7K 1/8W Carbon	AA	AA
R 0875	VRD-RA2BE272J	S	2.7K 1/8W Carbon	AA	AA
R 0876	VRD-RA2BE272J	S	2.7K 1/8W Carbon	AA	AA
R 0877	VRD-RA2BE333J	S	33K 1/8W Carbon	AA	AA
R 0878	VRD-RA2BE333J	S	33K 1/8W Carbon	AA	AA
R 0879	VRD-RA2BE333J	S	33K 1/8W Carbon	AA	AA
R 0880	VRS-VV3DB104J	S	100K 2W Metal Oxide	AB	AA
R 0883	VRS-VV3DB104J	S	100K 2W Metal Oxide	AB	AA
R 0884	VRS-VV3DB104J	S	100K 2W Metal Oxide	AB	AA
R 0887	VRD-RA2BE152J	S	1.5K 1/8W Carbon	AA	AA
R 0888	VRC-MA2HG561K	S		AB	AA

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
R 0889	VRD-RA2BE152J	S	1.5K 1/8W Carbon	AA	AA
R 0890	VRD-RA2BE123J	S	12K 1/8W Carbon	AA	AA
R 0891	VRC-MA2HG561K	S		AB	AA
R 0892	VRD-RA2BE152J	S	1.5K 1/8W Carbon	AA	AA
R 0893	VRC-MA2HG224K	S		AB	AA
R 0894	VRC-MA2HG561K	S		AB	AA
R 0895	VRD-RA2BE392J	S	3.9K 1/8W Carbon	AA	AA
R 0896	VRD-RA2BE122J	S	1.2K 1/8W Carbon		AA
R 0897	VRD-RA2BE334J	S	330 1/8W Carbon	AA	AA
R 0899	RR-XZ0204BMZZ	S	2.2 1/2W Fuse Resistor	AB	AA
R 5401	VRD-RA2BE102J	S	1K 1/8W Carbon	AA	AA
R 5402	VRD-RA2BE102J	S	1K 1/8W Carbon	AA	AA
R 5403	VRD-RA2BE471J	S	470 1/8W Carbon	AA	AA
R 5404	VRD-RA2BE122J	S	1.2K 1/8W Carbon		AA
R 5405	VRD-RA2BE223J	S	22K 1/8W Carbon	AA	AA
R 5406	VRD-RA2BE153J	S	15K 1/8W Carbon	AA	AA
R 5407	VRD-RA2BE181J	S	180 1/8W Carbon	AA	AA
R 5408	VRD-RA2BE151J	S	150 1/8W Carbon	AA	AA
R 5409	VRD-RA2BE153J	S	15K 1/8W Carbon	AA	AA
R 5410	VRD-RA2BE471J	S	470 1/8W Carbon	AA	AA
R 5411	VRD-RA2BE390J	S	39 1/8W Carbon	AA	AA
R 5412	VRD-RA2BE470J	S	47 1/8W Carbon	AA	AA
R 5413	VRD-RA2BE220J	S	22 1/8W Carbon	AA	AA
R 5414	VRD-RA2BE220J	S	22 1/8W Carbon	AA	AA
R 5415	VRD-RA2BE122J	S	1.2K 1/8W Carbon		AA
R 5416	VRD-RA2BE683J	S	68K 1/8W Carbon	AA	AA
R 5417	VRD-RA2BE123J	S	12K 1/8W Carbon	AA	AA
R 5418	VRD-RA2BE683J	S	68K 1/8W Carbon	AA	AA
R 5419	VRD-RA2BE122J	S	1.2K 1/8W Carbon		AA
R 5420	VRD-RA2EE560J	S	56 1/4W Carbon	AA	AA
R 5421	VRD-RA2EE560J	S	56 1/4W Carbon	AA	AA
R 5422	VRD-RA2EE2R7J	S	2.7 1/4W Carbon	AA	AA
R 5423	VRD-RA2EE2R7J	S	2.7 1/4W Carbon	AA	AA
R 5424	VRS-VV3DB221J	J	220 2W Metal Oxide	AA	AA
R 5425	VRS-VV3AB471J	S	470 1W Metal Oxide	AA	AA
R 5426	VRD-RA2BE561J	S	560 1/8W Carbon	AA	AA
R 5427	VRD-RA2BE222J	S	2.2K 1/8W Carbon	AA	AA
R 5428	VRD-RA2HD101J	S	100 1/2W Carbon	AA	AA
R 5429	VRD-RA2BE183J	S	18K 1/8W Carbon	AA	AA
R 5430	VRD-RA2BE102J	S	1K 1/8W Carbon	AA	AA
R 5431	RR-XZ0204BMZZ	S	2.2 1/2W Fuse Resistor	AB	AA

MISCELLANEOUS PARTS

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
FB 0850	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
FB 0851	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
FB 0852	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
FB 0861	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
P 0853	QTIPM0017CEFM	S		AA	AA
P 0855	QTIPM0017CEFM	S		AA	AA
P 0861	QPLGN0541CEZZ	S	Connector	AB	AB
P 0862	QPLGN0441CEZZ	S	Connector 4pin	AB	AB
P 5401	QPLGN0341CEZZ	S	Connector	AA	AA
P 5402	QPLGN0241CEZZ	S	Connector	AA	AA
P 5403	QPLGN0341CEZZ	S	Connector	AA	AA
⚠ SC 0861	QSOCV1012CEZZ	S	C.R.T. Socket	AG	AD
⚠ SG 0860	QSPGC0015CEZZ	S	Spark gap	AC	AB
⚠ SG 0861	QSPGC0015CEZZ	S	Spark gap	AC	AB
⚠ SG 0862	QSPGC0015CEZZ	S	Spark gap	AC	AB
⚠ SG 0863	QSPGC0015CEZZ	S	Spark gap	AC	AB
⚠ SG 0864	QSPGC0015CEZZ	S	Spark gap	AC	AB

PWB-D 100 Hz UNIT

INTEGRATED CIRCUITS

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
IC 6001	RH-IX1616BMZZ	S	VPC3200A	BH	BE
IC 6002	RH-IX1625BMZZ	S	CIP3250A-PS-B1	BA	AY
IC 6101	RH-IX1621BMZZ	S	SDA9290	AZ	AX
IC 6102	RH-IX1666BMZZ	S	SDA9253	AA	AA
IC 6103	RH-IX1666BMZZ	S	SDA9253	AA	AA
IC 6104	RH-IX1617BMZZ	S	SDA9220	AX	AT
IC 6105	RH-IX1619BMZZ	S	SDA9270	BE	BB
IC 6201	RH-IX1620BMZZ	S	SDA9280	BD	BA
IC 6202	RH-IX1626BMZZ	S	SDA9362	AZ	AX
IC 6203	VHITDA4780/-1	S	TDA4780	AZ	AS

TRANSISTORS

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
Q 6205	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 6206	RH-TX0102BMZZ	S	BC338	AB	AA
Q 6207	VS2SA1037KQ-1	S	BC807	AA	AA
Q 6212	VS2SA1037KQ-1	S	BC807	AA	AA
Q 6213	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 6214	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 6216	VS2SC2412KQ-1	S	2SC2412	AA	AA

DIODES

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
D 6001	RH-EX0546BMZZ	S	Zener TZMC5V6	AA	AA
D 6002	RH-EX0409BMZZ	S	Zener BZX79C5V6	AA	AA
D 6251	RH-EX0554BMZZ	S	Zener TZMC12	AA	AA
D 6252	RH-DX0551BMZZ	S	LL4148	AA	AA
D 6253	RH-DX0551BMZZ	S	LL4148	AA	AA
D 6254	RH-EX0547BMZZ	S	Zener TZMC6V2	AA	AA
D 6255	RH-DX0551BMZZ	S	LL4148	AA	AA
D 6256	RH-DX0551BMZZ	S	LL4148	AA	AA
D 6257	RH-EX0554BMZZ	S	Zener TZMC12	AA	AA
D 6258	RH-DX0551BMZZ	S	LL4148	AA	AA
D 6259	RH-EX0550BMZZ	S	Zener TZMC8V2	AA	AA
D 6260	RH-DX0551BMZZ	S	LL4148	AA	AA
D 6261	RH-DX0551BMZZ	S	LL4148	AA	AA
D 6263	RH-DX0551BMZZ	S	LL4148	AA	AA
D 6264	RH-DX0551BMZZ	S	LL4148	AA	AA

PACKADGED CIRCUITS

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
X 6001	RCRSB0219BMZZ	S	Crystal 20.25 MHz	AH	AG
X 6101	RCRSB0234BMZZ	S	Crystal 6.75 MHz	AG	AE
X 6201	RCRSB0224BMZZ	S	Crystal 12 MHz	AK	**

COILS

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
L 6001	VP-NM2R2MR16N	S	2.2µH	AC	AB
L 6002	VP-NM2R2MR16N	S	2.2µH	AC	AB
L 6003	VP-NM3R3MR19N	S	3.3µH	AC	AC
L 6004	VP-NM3R3MR19N	S	3.3µH	AC	AC
L 6005	VP-NM3R3MR19N	S	3.3µH	AC	AC
L 6006	VP-NM3R3MR19N	S	3.3µH	AC	AC
L 6007	VP-NM3R3MR19N	S	3.3µH	AC	AC
L 6008	VP-NM3R3MR19N	S	3.3µH	AC	AC
L 6009	VP-NM3R3MR19N	S	3.3µH	AC	AC
L 6010	VP-NM3R3MR19N	S	3.3µH	AC	AC
L 6011	VP-NM100KR42N	S	10µH	AC	AB
L 6013	VP-NM3R3MR19N	S	3.3µH	AC	AC
L 6014	VP-NM3R3MR19N	S	3.3µH	AC	AC
L 6017	VP-NM1R0MR10N	S	1µH	AB	AB
L 6101	VP-NM100KR42N	S	10µH	AC	AB
L 6102	VP-NM3R3MR19N	S	3.3µH	AC	AC
L 6103	VP-NM100KR42N	S	10µH	AC	AB
L 6104	VP-NM100KR42N	S	10µH	AC	AB
L 6201	RCILP0265BMZZ	S	1.5µH	AD	AC
L 6202	VP-NM1R0MR10N	S	1µH	AB	AB
L 6203	VP-NM1R0MR10N	S	1µH	AB	AB
L 6204	VP-NM1R0MR10N	S	1µH	AB	AB
L 6205	VP-NM100KR42N	S	10µH	AC	AB
L 6206	VP-NM100KR42N	S	10µH	AC	AB
L 6207	VP-NM100KR42N	S	10µH	AC	AB
L 6211	VP-NM100KR42N	S	10µH	AC	AB
L 6212	VP-NM1R0MR10N	S	1µH	AB	AB
L 6213	VP-NM100KR42N	S	10µH	AC	AB
L 6251	VP-NM3R3MR19N	S	3.3µH	AC	AC
L 6252	VP-NM100KR42N	S	10µH	AC	AB

REF. NO	PARTS	★	DESCRIPTION	CODE	
				EX	SP
CERAMIC FILTERS					
FB 6107	RFILN0001TAZZ	S	Filter	AE	AC
FB 6330	RFILN0001TAZZ	S	Filter	AE	AC
FB 6331	RFILN0001TAZZ	S	Filter	AE	AC
FB 6332	RFILN0001TAZZ	S	Filter	AE	AC
CAPACITORS					
C 6001	VCCCTV1HH470J	S	47p 50V Ceramic	AA	AA
C 6002	VCCCTV1HH680J	S	68p 50V Ceramic	AA	AA
C 6003	VCCCTV1HH331J	S	330p 50V Ceramic	AA	AA
C 6004	VCKYTV1EF334Z	S	0.33 25V Ceramic	AB	AA
C 6005	VCCCTV1HH330J	S	33p 50V Ceramic	AA	AA
C 6006	VCCCTV1HH470J	S	47p 50V Ceramic	AA	AA
C 6007	VCCCTV1HH391J	S	390p 50V Ceramic	AA	AA
C 6008	VCCCTV1HH680J	S	68p 50V Ceramic	AA	AA
C 6009	VCCCTV1HH331J	S	330p 50V Ceramic	AA	AA
C 6010	VCCCTV1HH391J	S	390p 50V Ceramic	AA	AA
C 6011	VCCCTV1HH3R3C	S	3.3p 50V Ceramic	AA	**
C 6012	VCCCTV1HH3R3C	S	3.3p 50V Ceramic	AA	**
C 6013	VCEAGA0JW477M	S	470 6.3V Electrolytic	AB	AA
C 6014	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 6015	VCEAGA0JW477M	S	470 6.3V Electrolytic	AB	AA
C 6016	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 6017	VCCCTV1HH331J	S	330p 50V Ceramic	AA	AA
C 6018	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 6019	VCEAGA1CW106M	S	10 16V Electrolytic	AA	AA
C 6020	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6021	VCKYTV1HF473Z	S	0.047 50V Ceramic	AA	AA
C 6022	VCEAGA1CW106M	S	10 16V Electrolytic	AA	AA
C 6023	VCEAGA1HW105M	S	1 50V Electrolytic	AA	AB
C 6025	VCEAGA1HW105M	S	1 50V Electrolytic	AA	AB
C 6026	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 6027	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 6028	VCEAGA1HW105M	S	1 50V Electrolytic	AA	AB
C 6029	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6030	VCEAGA1CW106M	S	10 16V Electrolytic	AA	AA
C 6031	VCKYTV1EF334Z	S	0.33 25V Ceramic	AB	AA
C 6032	VCEAGA0JW477M	S	470 6.3V Electrolytic	AB	AA
C 6033	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 6034	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 6035	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 6036	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 6037	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 6039	VCEAGA0JW107M	S	100 6.3V Electrolytic	AA	AA
C 6040	VCCCTV1HH680J	S	68p 50V Ceramic	AA	AA
C 6101	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6102	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6103	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6104	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6105	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6106	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6107	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6108	VCEAGA0JW107M	S	100 6.3V Electrolytic	AA	AA
C 6109	VCEAGA1CW106M	S	10 16V Electrolytic	AA	AA
C 6110	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6111	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6112	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6113	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6114	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6115	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6116	VCEAGA1AW107M	S	100 10V Electrolytic	AA	AA
C 6117	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6118	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 6119	VCKYTV1HB152K	S	1500p 50V Ceramic	AA	AA
C 6120	VCEAGA1AW227M	S	220 10V Electrolytic	AB	AA
C 6121	VCCCTV1HH330J	S	33p 50V Ceramic	AA	AA
C 6122	VCCCTV1HH330J	S	33p 50V Ceramic	AA	AA
C 6123	VCCCTV1HH150J	S	15p 50V Ceramic	AA	AA
C 6125	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6126	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6201	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6202	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6203	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6204	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6205	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 6206	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6209	VCEAGA0JW476M	S	47 6.3V Electrolytic	AA	AA
C 6210	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 6211	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6212	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6213	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6214	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6215	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6218	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 6219	VCCCTV1HH121J	S	120p 50V Ceramic	AA	AA
C 6221	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 6224	VCCCTV1HH221J	S	220p 50V Ceramic	AA	AA
C 6227	VCCCTV1HH221J	S	220p 50V Ceramic	AA	AA
C 6229	VCKYTV1HF223Z	S	0.022 50V Ceramic	AA	AA
C 6230	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6231	VCKYTV1HF223Z	S	0.022 50V Ceramic	AA	AA
C 6234	VCKYTV1HF224Z	S	0.22 50V Ceramic	AA	AA
C 6235	VCKYTV1HF224Z	S	0.22 50V Ceramic	AA	AA
C 6236	VCKYTV1HF224Z	S	0.22 50V Ceramic	AA	AA
C 6245	VCCCTV1HH270J	S	27p 50V Ceramic	AA	AA
C 6246	VCCCTV1HH270J	S	27p 50V Ceramic	AA	AA
C 6247	VCKYTV1HB152K	S	1500p 50V Ceramic	AA	AA
C 6248	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 6249	VCEAGA1CW106M	S	10 16V Electrolytic	AA	AA
C 6250	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6251	VCKYTV1HF473Z	S	0.047 50V Ceramic	AA	AA
C 6252	VCEAGA1CW106M	S	10 16V Electrolytic	AA	AA
C 6253	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6254	VCKYTV1HF223Z	S	0.022 50V Ceramic	AA	AA
C 6256	VCKYTV1HF224Z	S	0.22 50V Ceramic	AA	AA
C 6257	VCKYTV1HF224Z	S	0.22 50V Ceramic	AA	AA
C 6258	VCKYTV1HF224Z	S	0.22 50V Ceramic	AA	AA
C 6259	VCEAGA1HW105M	S	1 50V Electrolytic	AA	AB
C 6260	VCEAGA1CW106M	S	10 16V Electrolytic	AA	AA
C 6261	VCEAGA1HW475M	S	4.7 50V Electrolytic	AC	AC
C 6262	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 6263	VCEAGA1AW477M	S	470 10V Electrolytic	AB	AA
C 6264	VCCCTV1HH220J	S	22p 50V Ceramic	AA	AA
C 6265	VCCCTV1HH220J	S	22p 50V Ceramic	AA	AA
C 6266	VCCCTV1HH220J	S	22p 50V Ceramic	AA	AA
C 6267	VCEAGA1HW335M	S	3.3 50V Electrolytic	AA	AA
C 6268	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6269	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6270	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6276	VCEAGA1CW226M	S	22 16V Electrolytic	AA	AA
C 6278	VCEAGA1CW226M	S	22 16V Electrolytic	AA	AA
C 6279	VCEAGA1CW106M	S	10 16V Electrolytic	AA	AA
C 6280	VCEAGA1CW106M	S	10 16V Electrolytic	AA	AA
C 6281	VCEAGA1CW106M	S	10 16V Electrolytic	AA	AA
C 6282	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 6283	VCCCTV1HH331J	S	330p 50V Ceramic	AA	AA
C 6285	VCCCTV1HH121J	S	120p 50V Ceramic	AA	AA
C 6286	VCKYTV1HF223Z	S	0.022 50V Ceramic	AA	AA
C 6287	VCCCTV1HH121J	S	120p 50V Ceramic	AA	AA
C 6288	VCCCTV1HH560J	S	56p 50V Ceramic	AA	AA
C 6289	VCCCTV1HH220J	S	22p 50V Ceramic	AA	AA
RESISTORS					
R 6004	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6011	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6012	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6013	VRS-TV1JD471J	S	470 1/10W Metal Oxide	AA	AA
R 6015	VRS-TV1JD182J	S	1.8K 1/10W Metal Oxide	AA	AA
R 6017	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6018	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6019	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA

REF. NO	PARTS	★	DESCRIPTION	CODE	
				EX	SP
R 6020	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6107	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6108	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6109	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6110	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6111	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6112	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6113	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6114	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6115	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6116	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6117	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6118	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6119	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6120	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6121	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6122	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6123	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6124	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6125	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6126	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6127	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6128	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6129	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6130	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6131	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6132	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6133	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6134	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6135	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6136	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6137	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6138	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6139	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6140	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6141	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6142	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6143	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6144	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6145	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6146	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6147	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6148	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6149	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6150	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6151	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6152	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6153	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6154	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6156	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6157	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6158	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6159	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6160	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6201	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 6202	VRS-TV1JD133J	S	13K 1/10W Metal Oxide	AA	AA
R 6203	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 6204	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 6205	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 6206	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 6207	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 6208	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 6209	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 6210	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 6211	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 6214	VRS-TV1JD750J	S	75 1/10W Metal Oxide	AA	AA
R 6224	VRS-TV1JD561J	S	560 1/10W Metal Oxide	AA	AA
R 6225	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 6226	VRS-TV1JD271J	S	270 1/10W Metal Oxide	AA	AA
R 6227	VRS-TV1JD221J	S	220 1/10W Metal Oxide	AA	AA
R 6228	VRS-TV1JD272J	S	2.7K 1/10W Metal Oxide	AA	AA
R 6229	VRS-TV1JD271J	S	270 1/10W Metal Oxide	AA	AA
R 6230	VRS-TV1JD562J	S	5.6K 1/10W Metal Oxide	AA	AA
R 6231	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6232	VRS-TV1JD561J	S	560 1/10W Metal Oxide	AA	AA
R 6233	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 6234	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 6235	VRS-TV1JD000J	S	0 1/10 Metal Oxide	AA	AA
R 6236	VRS-TV1JD561J	S	560 1/10W Metal Oxide	AA	AA
R 6237	VRS-TV1JD000J	S	0 1/10W Metal Oxide	AA	AA
R 6239	VRS-TV1JD271J	S	270 1/10W Metal Oxide	AA	AA
R 6240	VRS-TV1JD151J	S	150 1/10W Metal Oxide	AA	AA
R 6242	VRS-TV1JD392J	S	3.9K 1/10W Metal Oxide	AA	AA
R 6243	VRS-TV1JD392J	S	3.9K 1/10W Metal Oxide	AA	AA
R 6247	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 6248	VRS-TV1JD124J	S	120K 1/10W Metal Oxide	AA	AA
R 6249	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 6251	VRS-TV1JD392J	S	3.9K 1/10W Metal Oxide	AA	AA
R 6253	VRS-TV1JD332J	S	3.3K 1/10W Metal Oxide	AA	AA
R 6254	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 6255	VRS-TV1JD331J	S	330 1/10W Metal Oxide	AA	AA
R 6256	VRS-TV1JD683J	S	68K 1/10W Metal Oxide	AA	AA
R 6257	VRS-TV1JD152J	S	1.5K 1/10W Metal Oxide	AA	AA
R 6258	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 6259	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6260	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6261	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 6262	VRS-TV1JD392J	S	3.9K 1/10W Metal Oxide	AA	AA
R 6263	VRS-TV1JD273J	S	27K 1/10 Metal Oxide	AA	AA
R 6264	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 6265	VRS-TV1JD182J	S	1.8K 1/10W Metal Oxide	AA	AA
R 6267	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6268	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 6269	VRS-TV1JD393J	S	39K 1/10W Metal Oxide	AA	AA
R 6270	VRS-TV1JD393J	S	39K 1/10W Metal Oxide	AA	AA
R 6271	VRS-TV1JD393J	S	39K 1/10W Metal Oxide	AA	AA
R 6272	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 6273	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6274	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6275	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6276	VRS-TV1JD683J	S	68K 1/10W Metal Oxide	AA	AA
R 6277	VRS-TV1JD151J	S	150 1/10W Metal Oxide	AA	AA
R 6278	VRS-TV1JD151J	S	150 1/10W Metal Oxide	AA	AA
R 6279	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 6280	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 6281	VRS-TV1JD333J	S	33K 1/10W Metal Oxide	AA	AA
R 6282	VRS-TV1JD333J	S	33K 1/10W Metal Oxide	AA	AA
R 6283	VRS-TV1JD682J	S	6.8K 1/10W Metal Oxide	AA	AA
R 6284	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 6285	VRS-TV1JD152J	S	1.5K 1/10W Metal Oxide	AA	AA
R 6286	VRS-TV1JD132J	S	1.3K 1/10W Metal Oxide	AA	AA
R 6287	VRS-TV1JD122J	S	1.2K 1/10W Metal Oxide	AA	AA
R 6288	VRS-TV1JD151J	S	150 1/10W Metal Oxide	AA	AA
R 6289	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 6291	VRS-TV1JD820J	S	82 1/10W Metal Oxide	AA	AA
R 6293	VRS-TV1JD221J	S	220 1/10W Metal Oxide	AA	AA
R 6294	VRS-TV1JD151J	S	150 1/10W Metal Oxide	AA	AA
R 6295	VRS-TV1JD155J	S	1.5M 1/10W Metal Oxide	AA	AA
R 6296	VRS-TV1JD155J	S	1.5M 1/10W Metal Oxide	AA	AA
R 6297	VRS-TV1JD562J	S	5.6K 1/10W Metal Oxide	AA	AA
R 6298	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 6301	VRS-TV1JD000J	S	0 1/10W Metal Oxide	AA	AA
R 6303	VRS-TV1JD000J	S	0 1/10W Metal Oxide	AA	AA
R 6305	VRS-TV1JD000J	S	0 1/10W Metal Oxide	AA	AA
			MISCELLANEOUS PARTS		
FB 6005	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6100	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6101	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6102	RCORF0003GEZZ	S	Ferrite	AC	AB
FB 6103	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6104	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6106	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA

REF. NO	PARTS	★	DESCRIPTION	CODE	
				EX	SP
FB 6301	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6302	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6303	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6304	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6305	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6306	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6307	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6308	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6309	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6310	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6311	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6312	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6313	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6314	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6315	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6316	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6317	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6318	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6319	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6320	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6321	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6322	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6323	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6324	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6325	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6326	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6327	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6328	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
FB 6329	RBLN-0039TAZZ	S	Ferrite Bead	AB	AA
P 6001	QPLGN0542CEZZ	S	Connector	AB	AA
P 6002	QPLGN0342CEZZ	S	Connector	AB	AA
P 6003	QPLGN0442CEZZ	S	Connector	AB	AA
P 6004	QPLGN0285FJZZ	S	Connector	AG	**
P 6005	QPLGN0285FJZZ	S	Connector	AG	**
P 6006	QPLGN1142CEZZ	S	Connector	AD	AB
PWB-E			**A / V UNIT**		
			INTEGRATED CIRCUITS		
IC 2401	RH-IX1623BMZZ	S	TDA6920X	AN	AK
IC 2402	RH-IX1623BMZZ	S	TDA6920X	AN	AK
IC 2403	RH-IX1624BMZZ	S	TEA6420	AP	AM
IC 2404	VHIBA10339F-1	S	BA10339	AC	AB
			TRANSISTORS		
Q 2438	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 2440	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 2441	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 2447	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 2450	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 2451	VS2SC2412KQ-1	S	2SC2412	AA	AA
			DIODES		
D 2408	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2409	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2410	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2411	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2412	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2413	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2414	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2415	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2416	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2417	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2418	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2419	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2420	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2421	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2422	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2423	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB

REF. NO	PARTS	★	DESCRIPTION	CODE	
				EX	SP
D 2424	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2425	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2426	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2427	RH-EX0401BMZZ	S	Zener BZX79C2V7	AA	AA
D 2428	RH-EX0408BMZZ	S	Zener BZX79C5V1	AB	AB
D 2429	RH-EX0408BMZZ	S	Zener BZX79C5V1	AB	AB
D 2430	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2431	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2432	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2433	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2434	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2435	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 2437	RH-EX0417BMZZ	S	Zener BZX79C12V	AA	AA
D 3312	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
D 3313	RH-EX0413BMZZ	S	Zener BZX79C8V2	AB	AB
			COILS		
L 2401	VP-DF100K0000	S	10μH	AB	AB
			CAPACITORS		
C 2418	VCCCTV1HH100D	S	10p 50V Ceramic	AA	AA
C 2419	VCCCTV1HH100D	S	10p 50V Ceramic	AA	AA
C 2420	RC-FZ9473BMNJ	J	0.047 63V Mylar	AC	AA
C 2421	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 2422	VCKYTV1HB473K	S	0.047 50V Ceramic	AA	AA
C 2423	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 2424	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 2425	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 2426	VCEAEA1CW226M	S	22 16V Electrolytic	AB	AA
C 2427	VCCCTV1HH221J	S	220p 50V Ceramic	AA	AA
C 2428	VCCCTV1HH221J	S	220p 50V Ceramic	AA	AA
C 2429	VCCCTV1HH221J	S	220p 50V Ceramic	AA	AA
C 2436	VCCCTV1HH100D	S	10p 50V Ceramic	AA	AA
C 2437	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 2438	VCCCTV1HH100D	S	10p 50V Ceramic	AA	AA
C 2439	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 2440	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 2441	VCCCTV1HH100D	S	10p 50V Ceramic	AA	AA
C 2442	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 2443	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 2444	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 2445	VCCCTV1HH100D	S	10p 50V Ceramic	AA	AA
C 2446	VCCCTV1HH100D	S	10p 50V Ceramic	AA	AA
C 2447	VCCCTV1HH331J	S	330p 50V Ceramic	AA	AA
C 2448	VCCCTV1HH331J	S	330p 50V Ceramic	AA	AA
C 2449	VCCCTV1HH471J	S	470p 50V Ceramic	AA	AA
C 2450	VCCCTV1HH471J	S	470p 50V Ceramic	AA	AA
C 2451	VCEAEA1CW476M	S	47 16V Electrolytic	AB	AA
C 2452	VCEAEA1CW476M	S	47 16V Electrolytic	AB	AA
C 2453	VCCCTV1HH560J	S	56p 50V Ceramic	AA	AA
C 2454	VCCCTV1HH560J	S	56p 50V Ceramic	AA	AA
C 2455	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 2456	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 2457	VCEAEA1CW106M	S	10 16V Electrolytic	AB	AA
C 2458	VCEAEA1CW106M	S	10 16V Electrolytic	AB	AA
C 2459	VCCCTV1HH331J	S	330p 50V Ceramic	AA	AA
C 2460	VCCCTV1HH331J	S	330p 50V Ceramic	AA	AA
C 2461	VCCCTV1HH471J	S	470p 50V Ceramic	AA	AA
C 2462	VCCCTV1HH471J	S	470p 50V Ceramic	AA	AA
C 2463	VCEAEA1CW476M	S	47 16V Electrolytic	AB	AA
C 2464	VCEAEA1CW476M	S	47 16V Electrolytic	AB	AA
C 2465	VCCCTV1HH560J	S	56p 50V Ceramic	AA	AA
C 2466	VCCCTV1HH560J	S	56p 50V Ceramic	AA	AA
C 2467	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 2468	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 2469	VCEAEA1CW106M	S	10 16V Electrolytic	AB	AA
C 2470	VCEAEA1CW106M	S	10 16V Electrolytic	AB	AA
C 2471	VCCCTV1HH331J	S	330p 50V Ceramic	AA	AA
C 2472	VCCCTV1HH331J	S	330p 50V Ceramic	AA	AA
C 2473	VCCCTV1HH471J	S	470p 50V Ceramic	AA	AA

REF. NO	PARTS	★	DESCRIPTION	CODE	
				EX	SP
C 2474	VCCCTV1HH471J	S	470p 50V Ceramic	AA	AA
C 2475	VCEAEA1CW476M	S	47 16V Electrolytic	AB	AA
C 2476	VCEAEA1CW476M	S	47 16V Electrolytic	AB	AA
C 2477	VCCCTV1HH560J	S	56p 50V Ceramic	AA	AA
C 2478	VCCCTV1HH560J	S	56p 50V Ceramic	AA	AA
C 2479	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 2480	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 2481	VCEAEA1CW106M	S	10 16V Electrolytic	AB	AA
C 2482	VCEAEA1CW106M	S	10 16V Electrolytic	AB	AA
C 2483	VCEAEA1CW226M	S	22 16V Electrolytic	AB	AA
C 2484	VCEAEA1CW107M	S	100 16V Electrolytic	AB	AA
C 2485	VCEAEA1CW107M	S	100 16V Electrolytic	AB	AA
C 2486	VCCCTV1HH100D	S	10p 50V Ceramic	AA	AA
C 2487	VCCCTV1HH100D	S	10p 50V Ceramic	AA	AA
C 2488	VCKYTV1HF103Z	S	0.01 50 Ceramic	AA	AA
C 2490	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 2491	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 2492	VCKYTV1HB392K	S	3900 50 Ceramic	AA	AA
C 2493	RC-FZ9224BMNJ	J	0.22 63V Mylar	AC	AA
C 2494	VCKYTV1HF473Z	S	0.047 50V Ceramic	AA	AA
C 2495	VCKYTV1HF473Z	S	0.047 50V Ceramic	AA	AA
C 2496	VCKYTV1HF473Z	S	0.047 50V Ceramic	AA	AA
C 2497	VCCSTV1HL101J	S	100p 50V Ceramic	AA	AA
C 2498	VCCSTV1HL101J	S	100p 50V Ceramic	AA	AA
C 2499	VCCSTV1HL101J	S	100p 50V Ceramic	AA	AA
C 3324	VCEAEA1CW106M	S	10 16V Electrolytic	AB	AA
C 3325	VCEAEA1CW106M	S	10 16V Electrolytic	AB	AA
C 3326	VCCSTV1HL101J	S	100p 50V Ceramic	AA	AA
C 3327	VCCSTV1HL101J	S	100p 50V Ceramic	AA	AA
RESISTORS					
R 2425	VRS-TV1JD152J	S	1.5K 1/10W Metal Oxide	AA	AA
R 2426	VRD-RA2BE152J	S	1.5K 1/8W Carbon	AA	AA
R 2427	VRD-RA2HD680J	S	68 1/2W Carbon	AA	AA
R 2428	VRD-RA2EE820J	S	82 1/4W Carbon	AA	AA
R 2429	VRD-RA2BE103J	S	10K 1/8W Carbon	AA	AA
R 2430	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 2431	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 2432	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 2433	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 2434	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 2435	VRS-TV1JD271J	S	270 1/10W Metal Oxide	AA	AA
R 2436	VRS-TV1JD271J	S	270 1/10W Metal Oxide	AA	AA
R 2437	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 2438	VRS-TV1JD471J	S	470 1/10W Metal Oxide	AA	AA
R 2439	VRS-TV1JD471J	S	470 1/10W Metal Oxide	AA	AA
R 2440	VRS-TV1JD471J	S	470 1/10W Metal Oxide	AA	AA
R 2441	VRD-RA2BE471J	S	470 1/8W Carbon	AA	AA
R 2442	VRD-RA2BE471J	S	470 1/8W Carbon	AA	AA
R 2443	VRD-RA2BE471J	S	470 1/8W Carbon	AA	AA
R 2444	VRD-RA2EE820J	S	82 1/4W Carbon	AA	AA
R 2445	VRD-RA2EE820J	S	82 1/4W Carbon	AA	AA
R 2446	VRD-RA2EE820J	S	82 1/4W Carbon	AA	AA
R 2447	VRD-RA2BE101J	S	100 1/8W Carbon	AA	AA
R 2448	VRD-RA2BE101J	S	100 1/8W Carbon	AA	AA
R 2449	VRD-RA2EE820J	S	82 1/4W Carbon	AA	AA
R 2450	VRD-RA2EE820J	S	82 1/4W Carbon	AA	AA
R 2451	VRD-RA2BE102J	S	1K 1/8W Carbon	AA	AA
R 2452	VRD-RA2BE103J	S	10K 1/8W Carbon	AA	AA
R 2453	VRD-RA2BE103J	S	10K 1/8W Carbon	AA	AA
R 2454	VRS-TV1JD471J	S	470 1/10W Metal Oxide	AA	AA
R 2455	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 2456	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 2457	VRS-TV1JD471J	S	470 1/10W Metal Oxide	AA	AA
R 2458	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 2459	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 2460	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 2461	VRS-TV1JD271J	S	270 1/10W Metal Oxide	AA	AA
R 2462	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 2463	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 2464	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 2465	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 2466	VRS-TV1JD471J	S	470 1/10W Metal Oxide	AA	AA
R 2467	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 2468	VRS-TV1JD471J	S	470 1/10W Metal Oxide	AA	AA
R 2469	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 2470	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 2471	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 2472	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 2473	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 2474	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 2475	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 2476	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 2477	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 2478	VRS-TV1JD471J	S	470 1/10W Metal Oxide	AA	AA
R 2479	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 2480	VRS-TV1JD471J	S	470 1/10W Metal Oxide	AA	AA
R 2481	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 2482	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 2483	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 2484	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 2485	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 2486	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 2487	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 2488	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 2489	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 2490	VRD-RA2BE101J	S	100 1/8W Carbon	AA	AA
R 2491	VRD-RA2BE101J	S	100 1/8W Carbon	AA	AA
R 2493	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 2497	VRD-RA2EE4R7J	S	4.7 1/4W Carbon	AA	AA
R 2498	VRD-RA2EE4R7J	S	4.7 1/4W Carbon	AA	AA
R 2499	VRD-RA2EE4R7J	S	4.7 1/4W Carbon	AA	AA
R 2500	VRD-RA2BE562J	S	5.6K 1/8W Carbon	AA	AA
R 2501	VRD-RA2BE562J	S	5.6K 1/8W Carbon	AA	AA
R 2503	VRD-RA2BE562J	S	5.6K 1/8W Carbon	AA	AA
R 2504	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 2505	VRD-RA2BE472J	S	4.7K 1/8W Carbon	AA	AA
R 2506	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 2507	VRS-TV1JD271J	S	270 1/10W Metal Oxide	AA	AA
R 2509	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 2510	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 2511	VRD-RA2BE472J	S	4.7K 1/8W Carbon	AA	AA
R 2512	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 2513	VRD-RA2BE183J	S	18K 1/8W Carbon	AA	AA
R 2514	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 2515	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 2516	VRD-RA2HD680J	S	68 1/2W Carbon	AA	AA
R 2517	VRD-RA2BE103J	S	10K 1/8W Carbon	AA	AA
R 2518	VRD-RA2EE820J	S	82 1/4W Carbon	AA	AA
R 2519	VRD-RA2HD680J	S	68 1/2W Carbon	AA	AA
R 2520	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 2521	VRD-RA2EE820J	S	82 1/4W Carbon	AA	AA
R 2522	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 2523	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 2524	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 2525	RR-XZ0104BMZZ	S	2.2 1/3W Fuse Resistor	AB	AA
R 2550	VRS-TV1JD561J	S	560 1/10W Metal Oxide	AA	AA
R 2551	VRS-TV1JD561J	S	560 1/10W Metal Oxide	AA	AA
R 3336	VRS-TV1JD564J	S	560K 1/10W Metal Oxide	AA	AA
R 3337	VRS-TV1JD564J	S	560K 1/10W Metal Oxide	AA	AA
R 3338	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 3339	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
MISCELLANEOUS PARTS					
FB 2401	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
FB 2402	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
FB 2403	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
J 0019	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
P 2401	QPLGN0642CEZZ	S	Connector	AB	AA
P 2402	QPLGN1142CEZZ	S	Connector	AD	AB
P 2403	QPLGN0285FJZZ	S	Connector	AG	**
SC 2401	QSOCZ0108BMZZ	S	RGB Connector	AE	AC

REF. NO	PARTS	★	DESCRIPTION	CODE	
				EX	SP
SC 2402	QSOCZ0109BMZZ	S	RGB Connector	AE	AC
SC 2403	QSOCZ0109BMZZ	S	RGB Connector	AE	AC

PWB-F FRONT A / V UNIT

DIODES

D 1401	RH-EX0549BMZZ	S	Zener TZMC7V5	AA	AA
D 1402	RH-EX0549BMZZ	S	Zener TZMC7V5	AA	AA

COILS

L 1300	VP-DF3R3K0000	S	3.3μH	AB	AB
L 1301	VP-DF3R3K0000	S	3.3μH	AB	AB

CAPACITORS

C 1300	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 1302	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 1305	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 1306	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 1407	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 1408	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA

RESISTORS

R 1300	VRD-RA2BE221J	S	220 1/8W Carbon	AA	AA
R 1301	VRS-TV1JD391J	S	390 1/10W Metal Oxide	AA	AA
R 1302	VRS-TV1JD391J	S	390 1/10W Metal Oxide	AA	AA
R 1314	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 1315	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 1316	VRS-TV1JD221J	S	220 1/10W Metal Oxide	AA	AA
R 1406	VRD-RA2EE750J	S	75 1/4W Carbon	AA	AA
R 1409	VRD-RA2EE750J	S	75 1/4W Carbon	AA	AA

MISCELLANEOUS PARTS

J 1301	QJAKJ0047CEZZ	S	Earphone Jack	AG	AD
J 1400	QJAKZ0015CEZZ	S	Jack	AM	AH
P 1301	QPLGN0341CEZZ	S	Connector	AA	AA
P 1400	QPLGN0641CEZZ	S	Connector	AB	AA

PWB-G DOLBY PROCESSOR UNIT

INTEGRATED CIRCUITS

IC 3301	RH-IX1604BMZZ	S	DSP56004	BD	BA
IC 3302	RH-IX1605BMZZ	S	APU2471	AY	AV
IC 3303	RH-IX1628BMZZ	S	MC HC4024D	AE	AD
IC 3304	RH-IX1608BMZZ	S	74S04	AD	AC
IC 3305	RH-IX1606BMZZ	S	62256	AT	AQ
IC 3306	RH-IX1429BMZZ	S	L7805CV	AE	AC

TRANSISTORS

Q 3301	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 3302	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 3303	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 3304	VS2SC2412KQ-1	S	2SC2412	AA	AA

DIODES

D 3301	RH-DX0551BMZZ	S	LL4148	AA	AA

PACKADGED CIRCUITS

X 3301	RCRSB0203BMZZ	S	Crystal 18.432 MHz	AG	AD

COILS

REF. NO	PARTS	★	DESCRIPTION	CODE	
				EX	SP
L 3312	VP-NM100KR42N	S	10μH	AC	AB
L 3313	VP-NM3R3MR19N	S	3.3μH	AC	AC
L 3314	VP-NM3R3MR19N	S	3.3μH	AC	AC
L 3315	VP-NM3R3MR19N	S	3.3μH	AC	AC
L 3316	VP-NM100KR42N	S	10μH	AC	AB
L 3317	VP-NM100KR42N	S	10μH	AC	AB
L 3318	VP-NM3R3MR19N	S	3.3μH	AC	AC
L 3319	VP-NM3R3MR19N	S	3.3μH	AC	AC
L 3320	VP-NM3R3MR19N	S	3.3μH	AC	AC
L 3321	VP-NM3R3MR19N	S	3.3μH	AC	AC
L 3322	VP-NM3R3MR19N	S	3.3μH	AC	AC
L 3323	VP-NM100KR42N	S	10μH	AC	AB

CAPACITORS

C 3301	VCKYTV1EF224Z	S	0.22 25V Ceramic	AA	AA
C 3302	VCEAGA1CW337M	S	330 16V Electrolytic	AC	AC
C 3303	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 3304	VCKYTV1HB222K	S	2200p 50V Ceramic	AA	AA
C 3307	VCEAGA1CW337M	S	330 16V Electrolytic	AC	AC
C 3308	VCKYTV1HB222K	S	2200p 50V Ceramic	AA	AA
C 3309	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 3310	VCEAGA1AW107M	S	100 10V Electrolytic	AA	AA
C 3311	VCEAGA1CW477M	S	470 16V Electrolytic	AC	AA
C 3312	VCKYTV1EB104K	S	0.1 25V Ceramic	AA	AA
C 3314	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 3315	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 3316	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 3317	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 3318	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 3319	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 3321	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 3322	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 3323	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 3324	VCKYTV1EB104K	S	0.1 25V Ceramic	AA	AA
C 3325	VCKYTV1EB104K	S	0.1 25V Ceramic	AA	AA
C 3327	VCKYTV1EB104K	S	0.1 25V Ceramic	AA	AA
C 3328	VCKYTV1EB104K	S	0.1 25V Ceramic	AA	AA
C 3329	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 3330	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 3331	VCKYTV1EB104K	S	0.1 25V Ceramic	AA	AA
C 3332	VCKYTV1EB104K	S	0.1 25V Ceramic	AA	AA
C 3333	VCKYTV1EB104K	S	0.1 25V Ceramic	AA	AA
C 3334	VCKYTV1EB104K	S	0.1 25V Ceramic	AA	AA
C 3335	VCKYTV1EB104K	S	0.1 25V Ceramic	AA	AA
C 3336	VCKYTV1HB122K	S	1200p 50V Ceramic	AA	AA
C 3337	VCEAGA1AW107M	S	100 10V Electrolytic	AA	AA
C 3351	VCCCTV1HH100D	S	10p 50V Ceramic	AA	AA
C 3352	VCCCTV1HH100D	S	10p 50V Ceramic	AA	AA
C 3353	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
C 3354	VCKYTV1EF224Z	S	0.22 25V Ceramic	AA	AA
C 3355	VCKYTV1EF474Z	S	0.47 25V Ceramic		
C 3356	VCKYTV1EB104K	S	0.1 25V Ceramic	AA	AA
C 3357	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 3358	VCEA0A1CW108M	S	1000 16V Electrolytic	AC	AA

RESISTORS

R 3301	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 3302	VRS-TV1JD683J	S	68K 1/10W Metal Oxide	AA	AA
R 3303	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 3304	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 3305	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 3306	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 3307	VRS-TV1JD683J	S	68K 1/10W Metal Oxide	AA	AA
R 3308	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 3309	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 3311	VRS-TQ2BD220J	S	22 1/8W Metal Oxide	AA	AA
R 3312	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 3313	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 3314	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 3315	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 3316	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 3319	VRS-TV1JD123J	S	12K 1/10W Metal Oxide	AA	AA

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
R 3320	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 3321	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 3322	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 3323	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 3324	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 3325	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 3326	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 3327	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 3328	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 3329	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 3330	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 3331	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 3333	VRS-TV1JD222J	S	2.2K 1/10W Metal Oxide	AA	AA
R 3334	VRS-TV1JD273J	S	27K 1/10W Metal Oxide	AA	AA
R 3335	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 3336	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 3337	VRS-TV1JD222J	S	2.2K 1/10W Metal Oxide	AA	AA
R 3338	VRS-TV1JD273J	S	27K 1/10W Metal Oxide	AA	AA
R 3350	VRS-TV1JD561J	S	560 1/10W Metal Oxide	AA	AA
R 3351	VRS-TV1JD561J	S	560 1/10W Metal Oxide	AA	AA
R 3352	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 3353	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 3354	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 3355	VRS-TV1JD123J	S	12K 1/10W Metal Oxide	AA	AA
R 3358	VRS-TV1JD000J	S	0 1/10W Metal Oxide	AA	AA
R 3359	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 3360	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 3361	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 3362	RR-XZ0120BMZZ	S	47 1/3W Fuse Resistor	AB	AA
R 3363	VRS-TV1JD222J	S	2.2K 1/10W Metal Oxide	AA	AA
R 3364	VRS-TV1JD273J	S	27K 1/10W Metal Oxide	AA	AA
R 3366	VRS-TV1JD000J	S	0 1/10W Metal Oxide	AA	AA

MISCELLANEOUS PARTS

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
FB 3301	RCORF0003GEZZ	S	Ferrite	AC	AB
FB 3302	RCORF0003GEZZ	S	Ferrite	AC	AB
FB 3303	RCORF0003GEZZ	S	Ferrite	AC	AB
FB 3304	RCORF0003GEZZ	S	Ferrite	AC	AB
FB 3305	RCORF0003GEZZ	S	Ferrite	AC	AB
FB 3306	RCORF0003GEZZ	S	Ferrite	AC	AB
P 3300	QPLGZ1138CEZZ	S	Connector	AD	AB
P 3301	QPLGN1041CEZZ	S	Connector	AB	AA
P 3302	QPLGN1141CEZZ	S	Connector	AC	**
P 3303	QTIPM0017CEFM	S		AA	AA

PWB-H DOLBY POWER UNIT

INTEGRATED CIRCUITS

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
IC 3100	VHITDA7481/-1	S	TDA7481	AP	AH
IC 3101	VHITDA7480/-1	S	TDA7481	AK	AF
IC 3102	VHITDA7480/-1	S	TDA7481	AK	AF
IC 3103	VHITDA7480/-1	S	TDA7481	AK	AF

TRANSISTORS

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
Q 3100	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 3101	VS2SA1037KQ-1	S	BC807	AA	AA
Q 3102	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 3103	VS2SA1037KQ-1	S	BC807	AA	AA
Q 3104	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 3106	VS2SC2412KQ-1	S	2SC2412	AA	AA
Q 3107	VS2SA1037KQ-1	S	BC807	AA	AA
Q 3108	VS2SC2412KQ-1	S	2SC2412	AA	AA

DIODES

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
D 3101	RH-DX0551BMZZ	S	LL4148	AA	AA
D 3102	RH-DX0551BMZZ	S	LL4148	AA	AA
D 3115	RH-DX0551BMZZ	S	LL4148	AA	AA
D 3117	RH-DX0551BMZZ	S	LL4148	AA	AA
D 3118	RH-DX0551BMZZ	S	LL4148	AA	AA
D 3119	RH-DX0551BMZZ	S	LL4148	AA	AA

COILS

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
L 3100	VP-CF1R0M0000	S	1μH	AB	AA
L 3101	VP-CF1R0M0000	S	1μH	AB	AA
L 3102	RCILP0242BMZZ	S	100μH	AM	AK
L 3103	VP-CF1R0M0000	S	1μH	AB	AA
L 3104	VP-CF1R0M0000	S	1μH	AB	AA
L 3105	RCILP0278BMZZ	S		AD	AA
L 3106	VP-CF1R0M0000	S	1μH	AB	AA
L 3107	VP-CF1R0M0000	S	1μH	AB	AA
L 3108	RCILP0278BMZZ	S		AD	AA
L 3109	VP-CF1R0M0000	S	1μH	AB	AA
L 3110	VP-CF1R0M0000	S	1μH	AB	AA
L 3111	RCILP0278BMZZ	S		AD	AA

CAPACITORS

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
C 3100	VCEAGA1CW336M	S	33 16V Electrolytic	AA	AA
C 3101	VCEAGA1CW337M	S	330 16V Electrolytic	AC	AC
C 3103	VCE9GA1HW225M	S	2.2 50V Electrolytic	AB	AA
C 3104	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 3105	VCKYTV1HB472K	S	4700p 50V Ceramic	AA	AA
C 3106	VCE9GA1HW225M	S	2.2 50V Electrolytic	AB	AA
C 3107	VCKYTV1HB472K	S	4700p 50V Ceramic	AA	AA
C 3108	RC-FZ9224BMNJ	J	0.22 63V Mylar	AC	AA
C 3109	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 3110	VCEAGA1EW476M	S	47 25V Electrolytic	AA	AA
C 3111	VCEAGA1EW476M	S	47 25V Electrolytic	AA	AA
C 3112	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 3113	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 3114	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 3115	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 3116	VCKYTV1HB561K	S	560p 50V Ceramic	AA	AA
C 3117	RC-FZ9474BMNJ	J	0.47 63V Mylar	AD	AB
C 3118	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 3119	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 3120	RC-FZ9224BMNJ	J	0.22 63V Mylar	AC	AA
C 3121	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 3122	VCEAGA1EW227M	S	220 25V Electrolytic	AA	AA
C 3123	VCEAGA1EW227M	S	220 25V Electrolytic	AA	AA
C 3124	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 3125	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 3126	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 3127	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 3128	VCKYTV1HB472K	S	4700p 50V Ceramic	AA	AA
C 3129	VCKYTV1HB561K	S	560p 50V Ceramic	AA	AA
C 3130	RC-FZ9474BMNJ	J	0.47 63V Mylar	AD	AB
C 3132	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 3133	VCE9GA1HW225M	S	2.2 50V Electrolytic	AB	AA
C 3134	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 3135	RC-FZ9224BMNJ	J	0.22 63V Mylar	AC	AA
C 3136	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 3137	VCEAGA1EW227M	S	220 25V Electrolytic	AA	AA
C 3138	VCEAGA1EW227M	S	220 25V Electrolytic	AA	AA
C 3139	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 3140	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 3141	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 3142	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 3143	VCKYTV1HB472K	S	4700p 50V Ceramic	AA	AA
C 3144	VCKYTV1HB561K	S	560p 50V Ceramic	AA	AA
C 3145	RC-FZ9684BMNJ	J	0.68 63V Mylar	AD	AB
C 3147	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 3148	VCE9GA1HW225M	S	2.2 50V Electrolytic	AB	AA
C 3149	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 3150	RC-FZ9224BMNJ	J	0.22 63V Mylar	AC	AA
C 3151	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 3152	VCEAGA1EW227M	S	220 25V Electrolytic	AA	AA
C 3153	VCEAGA1EW227M	S	220 25V Electrolytic	AA	AA
C 3154	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA

REF. NO	PARTS	★	DESCRIPTION	CODE	
				EX	SP
C 3155	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
C 3156	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
C 3157	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	AA
C 3158	VCKYTV1HB472K	S	4700p 50V Ceramic	AA	AA
C 3159	VCKYTV1HB561K	S	560p 50V Ceramic	AA	AA
C 3160	RC-FZ9684BMNJ	J	0.68 63V Mylar	AD	AB
C 3162	VCE9GA1CW106M	S	10 16V Electrolytic (N/P)	AC	AA
C 3163	VCE9GA1CW106M	S	10 16V Electrolytic (N/P)	AC	AA
C 3166	VCKYTV1HB392K	S	3900 50V Ceramic	AA	AA
C 3167	VCKYTV1HB392K	S	3900 50V Ceramic	AA	AA
C 3170	VCCCTV1HH561J	S	560p 50V Ceramic	AA	AA
C 3171	VCCCTV1HH561J	S	560p 50V Ceramic	AA	AA
RESISTORS					
R 3101	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 3102	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 3103	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 3104	VRS-TV1JD272J	S	2.7K 1/10W Metal Oxide	AA	AA
R 3105	VRS-TV1JD272J	S	2.7K 1/10W Metal Oxide	AA	AA
R 3106	VRS-TV1JD821J	S	820 1/10W Metal Oxide	AA	AA
R 3107	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 3108	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 3109	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 3111	VRS-TV1JD821J	S	820 1/10W Metal Oxide	AA	AA
R 3112	VRS-TV1JD000J	S	0 1/10W Metal Oxide	AA	AA
R 3113	VRS-TV1JD272J	S	2.7K 1/10W Metal Oxide	AA	AA
R 3114	VRS-TV1JD182J	S	1.8K 1/10W Metal Oxide	AA	AA
R 3115	VRS-TV1JD273J	S	27K 1/10W Metal Oxide	AA	AA
R 3116	VRS-TV1JD472F	S	4.7K 1/10W Metal Oxide	AA	AA
R 3117	VRS-TQ2BD000J	S	Jumper	AA	AA
R 3119	VRS-TV1JD123J	S	12K 1/10W Metal Oxide	AA	AA
R 3120	VRD-RA2HD151J	S	150 1/2W Carbon	AA	AA
R 3121	VRS-TV1JD273J	S	27K 1/10W Metal Oxide	AA	AA
R 3122	VRS-TV1JD103F	S	10K 1/10W Metal Oxide	AA	AA
R 3123	VRS-TV1JD392F	S	3.9K 1/10W Metal Oxide	AA	AA
R 3125	VRS-TV1JD123J	S	12K 1/10W Metal Oxide	AA	AA
R 3126	VRD-RA2HD151J	S	150 1/2W Carbon	AA	AA
R 3128	VRS-TQ2BD000J	S	Jumper	AA	AA
R 3129	VRS-TV1JD273J	S	27K 1/10W Metal Oxide	AA	AA
R 3130	VRS-TV1JD103F	S	10K 1/10W Metal Oxide	AA	AA
R 3131	VRS-TV1JD392F	S	3.9K 1/10W Metal Oxide	AA	AA
R 3133	VRS-TV1JD123J	S	12K 1/10W Metal Oxide	AA	AA
R 3134	VRD-RA2HD151J	S	150 1/2W Carbon	AA	AA
R 3136	VRS-TQ2BD000J	S	Jumper	AA	AA
R 3137	VRS-TV1JD273J	S	27K 1/10W Metal Oxide	AA	AA
R 3138	VRS-TV1JD103F	S	10K 1/10W Metal Oxide	AA	AA
R 3139	VRS-TV1JD392F	S	3.9K 1/10W Metal Oxide	AA	AA
R 3141	VRS-TV1JD123J	S	12K 1/10W Metal Oxide	AA	AA
R 3142	VRD-RA2HD151J	S	150 1/2W Carbon	AA	AA
R 3144	VRS-TQ2BD000J	S	Jumper	AA	AA
R 3145	VRD-RA2BE104J	S	100K 1/8W Carbon	AA	AA
R 3146	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 3147	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 3148	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 3149	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 3150	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 3151	VRS-TV1JD103F	S	10K 1/10W Metal Oxide	AA	AA
R 3152	VRS-TV1JD000J	S	0 1/10W Metal Oxide	AA	AA
R 3153	VRS-TV1JD000J	S	0 1/10W Metal Oxide	AA	AA
R 3154	VRS-TV1JD000J	S	0 1/10W Metal Oxide	AA	AA
R 3155	VRS-TV1JD000J	S	0 1/10W Metal Oxide	AA	AA
R 3156	VRD-RA2BE223J	S	22K 1/8W Carbon	AA	AA
R 3157	VRS-TV1JD000J	S	0 1/10W Metal Oxide	AA	AA
R 3160	VRS-TV1JD123J	S	12K 1/10W Metal Oxide	AA	AA
R 3161	VRS-TV1JD123J	S	12K 1/10W Metal Oxide	AA	AA
R 3162	VRS-TV1JD000J	S	0 1/10W Metal Oxide	AA	AA
R 3163	VRS-TV1JD000J	S	0 1/10W Metal Oxide	AA	AA
MISCELLANEOUS PARTS					
P 3101	QPLGN1041CEZZ	S	Connector	AB	AA

REF. NO	PARTS	★	DESCRIPTION	CODE	
				EX	SP
P 3104	QTIPM0017CEFM	S		AA	AA
SC 3100	QSOCN0485CEZZ	S	Socket	AC	AB
SC 3101	QSOCN0685CEZZ	S	Socket	AD	AB
SC 3102	QSOCZ1138CEZZ	S	Socket	AD	AB
PWB-I	**EXTERNAL SPEAKERS UNIT**				
CAPACITORS					
C 3201	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 3202	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 3203	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 3204	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 3205	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 3206	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
RESISTORS					
R 3200	VRS-TW2ED331J	S	330 1/4W Metal Oxide	AA	AA
R 3201	VRS-TW2ED331J	S	330 1/4W Metal Oxide	AA	AA
R 3202	VRS-TW2ED331J	S	330 1/4W Metal Oxide	AA	AA
R 3203	VRS-TW2ED331J	S	330 1/4W Metal Oxide	AA	AA
MISCELLANEOUS PARTS					
P 3201	QPLGN0485CEZZ	S	Connector	AC	AA
P 3202	QPLGN0442CEZZ	S	Connector	AB	AA
	QJAKE0070CEZZ	S	Jack	AD	AD
PWB-J	**EXTERNAL SPEAKERS UNIT**				
CAPACITORS					
C 3207	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 3208	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 3209	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 3210	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 3211	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
C 3212	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
RESISTORS					
R 3204	VRS-TW2ED331J	S	330 1/4 Metal Oxide	AA	AA
R 3205	VRS-TW2ED331J	S	330 1/4W Metal Oxide	AA	AA
R 3206	VRS-TW2ED331J	S	330 1/4 Metal Oxide	AA	AA
R 3207	VRS-TW2ED331J	S	330 1/4W Metal Oxide	AA	AA
R 3208	VRS-TW2ED331J	S	330 1/4W Metal Oxide	AA	AA
R 3210	VRS-TW2ED331J	S	330 1/4W Metal Oxide	AA	AA
MISCELLANEOUS PARTS					
P 3203	QPLGN0685CEZZ	S	Connector	AC	AA
	QJAKE0070CEZZ	S	Jack	AD	AD
PWB-K	**AUDIO COILS**				
COILS					
L 3112	RCILP0262BMZZ	S	5mH	AG	AD
L 3113	RCILP0262BMZZ	S	5mH	AG	AD
L 3114	RCILP0242BMZZ	S	100µH	AM	AK
MISCELLANEOUS PARTS					
P 3105	QPLGN0441CEZZ	S	Connector 4pin	AB	AB
P 3106	QPLGN0841CEZZ	S	Connector	AB	AA
P 3107	QPLGN0241CEZZ	S	Connector	AA	AA

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
MISCELLANEOUS PARTS					
⚠	QACCZ2100BMSA	S	AC Cord	AR	AH
	RCORF0002BMZZ	S	Ferrite	AK	AF
	RRMCG1067BMSA	S	Remote Control Unit	AX	AQ
	TINS-6701BMZZ	S	Operation Manual 81EF19E		
	TINS-6606BMZZ	S	Operation Manual 81EF20E	BB	AR
	VSP1306PB08WE	S	(1X) Speaker 10W 16 ohms	AV	AM
	CBOXS1002BMV0	S	Complete Internal Speaker Box	AZ	AN
	VSP1306PB067S	S	Central Spk 12W 8ohm 81EF20E	AR	AN
	CSP-Z0002BM01	S	(2X)Ext. Surround Spk 81EF20E	BT	BG

REF. NO	PARTS	★	DESCRIPTION	CODE EX	CODE SP
CABINET PARTS					
1	CCABA1243BMV0	S	Front Cabinet 81EF19E	BR	BA
1	CCABA1239BMV0	S	Front Cabinet 81EF20E	BN	AZ
1 - 1	GDORF1056BMSA	S	Door 81EF19E	AF	AB
1 - 1	GDORF1055BMSA	S	Door 81EF20E	AE	AC
1 - 2	HDECQ0044BMSA	S	Window	AC	AB
1 - 3	HDECQ0043BMSA	S	Window Power	AC	AA
1 - 4	HBDGB3510BMSA	S	Badge SHARP	AL	AF
1 - 5	JBTN-1056BMSA	S	Button Up/Down	AD	AB
1 - 6	JBTN-1055BMSA	S	Button Power	AE	AB
1 - 7	HINDP5106BMSA	S	Indicator	AE	AC
1 - 8	PKAI-1083BM00	S	Door Latch	AF	AC
2	CCABB1089BMV0	S	Rear Cabinet 81EF19E		
2	CCABB1087BMV0	S	Rear Cabinet 81EF20E